

gctgccccgg	aaccggccca	gtgaggacct	cccagggcct	ggtggcagtg	tggacatagt	1320
ggccatggat	gaaggctcg	aagcatcctc	ctgctcatct	gctttggcct	cgaagccag	1380
cccagaggg	gcctctgctg	ccagcttga	gtacactatc	ctggacccca	gctcccaagct	1440
cttgcgtcca	tggacactgt	gccctgagct	gccccctacc	ccaccccaacc	taaagtacct	1500
gtaccttgtg	gtatctgact	ctggcatctc	aactgactac	agctcagggg	actcccaggg	1560
agccaaagg	ggcttatccg	atggcccta	ctccaaccct	tatgagaaca	gccttatccc	1620
agccgctgag	cctctgcccc	ccagctatgt	ggcttgcct	taggaccca	ggctgcagat	1680
gatcagggat	ccaatatgac	tcaagagaacc	agtgcagact	caagacttat	ggaacaggga	1740
tggcaggccc	tctctcagga	gcaggggcat	tgctgattt	gtctgccca	tccatcctgc	1800
tcagggaaacc	acaacacctgc	agtattttta	aatatgtata	gttttttg		1849

<210> 361
<211> 1326
<212> DNA
<213> Homo sapiens

<400> 361						
atgtccccca	tctcaggagc	ctcgcccagc	tggagggctg	cacccaaagc	ctcagacactg	60
ctggggggcc	ggggcccagg	gggaaccttc	cagggccgag	atcttcgagg	cggggcccat	120
gcctccttctt	cttccttcaa	ccccatgcca	ccatcgacgc	tgcagctctc	aacgggtggat	180
gcccacgccc	ggacccctgt	gtgcaggtg	cacccctgg	agagcccaagc	catgtacgc	240
ctcacaccac	ccaccaccgc	cacttgggtc	ttctccctca	aggccggcc	tggcctccca	300
cctggatca	acgtggccag	cctggaatgg	gtgtccaggg	agccggca	gctctgcacc	360
ttcccaaatac	ccagtgcacc	caggaaggac	agcacccctt	cggctgtgcc	ccagagctcc	420
tacccactgc	tggcaaata	tggatgg	tggccggat	gtgagaaggt	tttgcagag	480
ccagaggact	ttctcaagca	ctggcaggcg	gaccatctc	tggatgagaa	ggcgaggc	540
caatgtctcc	tccagagaga	gatggatag	tctctggagc	agcagcttgt	gctggagaag	600
gagaagctga	gtgccatgc	ggcccacctg	gctggaaaa	tggcactgc	caaggcttca	660
tctgtggcat	catccgacaa	gggtccctgc	tgcacatcgtag	ctgctggcag	ccaaggccct	720
gtcgtccca	cctggctctgg	ccccgggg	gcccctgaca	gcctgtttgc	tgtccggagg	780
cacctgtgg	gtagccatgg	aaacagcaca	ttcccaagat	tcctccacaa	catggactac	840
ttcaagtcc	acaacatcg	accccttcc	acctacgcca	cgctcatccg	ctggccatc	900
ctggaggctc	cagagaagca	gccccac	aatgagatct	accactgg	cacacgcata	960
tttgccttct	tcagaaacca	tcctgcccacc	tggaggtga	gctctctga	ggtggcggt	1020

actggggatgg cctcaagtgc catcgagct caaagtggc aggcctgggt ctgggctcat	1080
aggcacattg gggaggaacg ggatgtgggt ttttgggtt ggctgctggc ctcagaggtt	1140
gacgcccacc tgctccctgt ccccgccctt ccacagaacg ccatccgcca caacctgagtt	1200
ctgcacaagt gctttgtgct ggtggagacg gagaaggggg ctgtgtggac cgtggatgag	1260
ctggagttcc gcaagaaaacg gagccagagg cccagcaggt gttccaaacc tacacctggc	1320
ccctgta	1326

<210> 362
<211> 1498
<212> DNA
<213> Homo sapiens

<400> 362	
gcaaaggcca aggccagcca ggacaccccc tgggatcaca ctgagcttgc cacatcccc	60
aggccggcga accctccgc accaccagcc caggttaatc cccagaggct ccatggagtt	120
ccctggcctg ggtccctgg ggacctcaga gcccctcccc cagtttgtgg atcctgtct	180
ggtgtctcc acaccagaat caggggtttt ttccctctt gggcctgagg gcttggatgc	240
agcagcttcc tccactgccc cgagcacagc caccgctgcgac gctggggcac tggcctacta	300
cagggacgct gaggcctaca gacactcccc agtctttcag gtgtacccat tgctcaactg	360
tatggagggg atcccagggg gtcaccata tgccggctgg gcctacggca agacggggct	420
ctaccctgcc tcaactgtgt gtcccaccccg cgaggactct cctccccagg ccgtggaaga	480
tctggatgga aaaggcagca ccagttctt ggagactttt aagacagagc ggctgagcccc	540
agacccctgtt accctgggac ctgcactgc ttcatcactc cctgtccccca atatgtctta	600
tggggggccct gactttcca gtacccctt ttctccacc gggagcccccc tcaattcagc	660
agccttatcc tctcccaagc ttctggaaac tctccctctg cctccctgtg aggcaggaga	720
gtgtgtgaaac tgccggagca cagccactcc actgtggcg agggacagga cagggcacta	780
cctatgcacac gcctcgcc tctatcacaa gatgaatggg cagaacaggc ccctcatccg	840
gcccaagaag cgcctgattt tcaactaaacg ggcaggactt cagtgacca actgcacagac	900
gaccaccacg acactgtggc ggagaaatgc cagtgggat cccgtgtgc atgcctgcgg	960
cctctactac aagctacacc aggtgaacccg gccactgacc atgcggaaagg atggtattca	1020
gactcgaaac cgcaaggcat ctggaaaagg gaaaaagaaa cggggctcca gtctggagg	1080
cacaggagca gccgaaggac cagctgggtt cttttaggtt gtggctgggg gcagcggtag	1140
cggaaatgtt ggggagggtgg ctccaggccct gacactgggc ccccccaggta ctgccccatct	1200
ctaccaaggc ctggggccctg tggtgtctgtc agggcctgtt agccacctca tgcctttccc	1260

tggaccctta	ctgggctcac	ccacgggctc	cttccccaca	ggccccatgc	ccccaccac	1320
cagcaact	gtggtggtc	cgctcagctc	atgagggcac	agagcatggc	ctccagagga	1380
gggggtgtgt	ccttcctc	tttagccag	aattctggac	aacccaagtc	tctggccccc	1440
aggcaccccc	tggcttgaac	cttcaaagct	tttgtaaaat	aaaaccacca	aagtcttg	1498

<210> 363
<211> 3334
<212> DNA
<213> Homo sapiens

<400> 363						
attccctgct	gggaggttgt	ggaagaagga	agatggccag	agctttgtgt	ccactgcaag	60
ccctctggct	tctggagtgg	gtgctgctgc	tcttgggacc	ttgtgctgcc	cctccagcct	120
gggccttggaa	cctggaccca	gtgcgactca	ccttctatgc	aggcccaat	ggcagccagt	180
ttggattttc	actggacttc	cacaaggaca	gccccggag	agtggccatc	gtgggtggcg	240
ccccggggac	cctggccccc	agccaggagg	agacgggcgg	cgtgttccctg	tgcccttgga	300
ggggccgggg	cggccagtc	ccctcgctgc	tctttgacct	ccgtgatgag	acccgaaatg	360
taggctcca	aactttacaa	accttcaagg	cccgccaagg	actggggcg	tcggctgtca	420
gctggagcga	cgtcattgtg	gctgcgccc	cctggcagca	ctggAACGTC	ctagaaaaga	480
ctgaggaggc	tgagaagacg	cccgtaggta	gctgtttttt	ggctcagcca	gagagccggcc	540
gcccgcgcga	gtactcccc	tgtcgcggga	acacccttag	ccgcattac	gtggaaaatg	600
attttagctg	ggacaagcgt	tactgtgaag	cgggcttcag	ctccgtggtc	actcaggccg	660
gagagctgt	gcttggggct	cctggcggt	attatttctt	aggttcctg	gcccaggctc	720
cagttgcgg	tattttctcg	agttaccggc	caggcatct	tttggcgcac	gtgtctccc	780
agagcctctc	ctttgactcc	agcaacccag	agtacttcga	cggctactgg	gggtactcgg	840
ttggcgtgg	cgagttcgac	ggggatctca	acactacaga	atatgtcgtc	ggtgccccca	900
cttggagctg	gaccctggga	gccccggaaa	ttttggattc	ctactaccag	aggctgcata	960
ggctgegcgc	agagcagatg	gegtctgtatt	ttgggcattc	agtggctgtc	actgacgtca	1020
acggggatgg	gaggcatgt	ctgctggtg	gegtccact	gtatggag	agccgggcag	1080
accgaaaact	ggccgaagt	gggcgtgtgt	atttggctct	gcagccgcga	ggcccccacg	1140
cgctgggtgc	ccccagcctc	ctgctgactg	geacacaget	ctatggcga	tccggctctg	1200
ccatcgacc	cctgggcac	ctgacccggg	atggctacaa	tgacattgca	gtggctgcc	1260
cctacgggg	tcccagtggc	cggggccaa	tgctgggtt	cctgggtcag	agtggggc	1320
tgaggtcacg	tccctccag	gtcctggaca	gccccctccc	cacaggctct	gcctttgggt	1380

tctccccctcg	agggtccgtta	gacatcgatg	acaacggata	cccagacctg	atcggtggag	1440
cttaacggggc	caaccagggtg	gctgtgtaca	gagctcagcc	agtggtaag	gcctctgtcc	1500
agctactgtt	gcaagattca	ctgaatccctg	ctgtgaagag	ctgtgtccct	cctcagaccca	1560
agacaccccg	gagctgtttc	aacatccaga	tgtgtgttgg	agccactggg	cacaacatcc	1620
ctcagaagct	atccctaaat	gccgagctgc	agctggaccg	gcagaagccc	cgccaggggcc	1680
ggcgggtgtc	gctgctgggc	tctcaacagg	caggcaccac	cctgaacctg	gatctggggcg	1740
gaaaggcacag	ccccatctgc	cacaccacca	tggccttct	tcgagatgag	gcagacttcc	1800
gggacaagct	gagccccatt	gtgctcagcc	tcaatgtgtc	cctaccgccc	acggaggctg	1860
aatggggccc	tgctgtcggt	ctgcatggag	acacccatgt	gcaggagcag	acacgaatcg	1920
tcctggactc	tggggaaagat	gacgttatgt	tgccccagct	tcagctca	gtccagcgtga	1980
cgggctcccc	gctcctagtt	ggggcagata	atgtcctgga	gctcagatg	gacgcagcca	2040
acgagggcga	ggggccctat	gaagcagagc	tggccgtgc	cctgccccag	ggcgcccact	2100
acatcgggc	cctaagcaat	gtcgagggt	tttagagact	catctgtat	cagaagaagg	2160
agaatgagac	cagggtgttg	ctgtgtgagc	tggcaaccc	catgaagaag	aacgcccaga	2220
taggaatcgc	gatgttgttg	agcgtgggaa	atcttggaa	ggctggggag	tctgtgtcct	2280
tccagctgc	gatacggagc	aagaacagcc	agaatccaaa	cagcaagatt	gtgctgtgg	2340
acgtgcccgt	ccgggcagag	gcccaagtgg	agctgcgagg	gaactccctt	ccagcctccc	2400
tgggtgtggc	agcagaagaa	ggtgagaggg	agcagaacag	cttggacagc	tggggaccca	2460
aagtggagca	cacctatgag	ctccacaaca	atggccctgg	gactgtgaat	ggtcttcacc	2520
tcagcatcca	ccttccggga	cagtcccagc	cctcggacct	gtcttacatc	ctggatatac	2580
agccccagg	gggccttcag	tgttccac	agcctctgt	caaccctctc	aagggtggact	2640
gggggtgtcc	catccccagg	ccctccccc	ttcacccggc	ccatcacaag	cgggatcgca	2700
gacagatctt	cctgcccagag	cccgagcgc	cctcgaggt	tcaggatcca	gttctcgtaa	2760
gctgcgactc	ggcgcctctgt	actgtgtgc	agtgtgacct	gcaggagatg	gwgcgccggc	2820
agcggggccat	ggtcacggtg	ctggccttcc	tgtggctgc	cagctctac	cagaggccctc	2880
tggatcgtt	tgtgtgtcgag	tcgcacgcat	ggttcaacgt	gtcctccctc	ccctatgcgg	2940
tgcctccctgt	cagcctgccc	cgagggaaag	ctcaggggtg	gacacagctg	ctccggccct	3000
tggaggagag	ggccattcca	atctgggtgg	tgctgggtgg	tgtgtgggt	ggcctgtgc	3060
tgtctaccat	cctggtcctg	gccatgtgg	aggtcggtt	cttcaagcg	aaccggccac	3120
cccttggaaaga	agatgtgaa	gagggggagt	gatggtgag	cctacactat	tctagcagga	3180

gggttggcg	tgctacctgc	accgcccctt	ctccaacaag	ttgcctccaa	gctttgggtt	3240
ggagctgttc	cattgggtcc	tcttggtgc	gtttccctcc	caacagagct	gggctacccc	3300
ccctcctgct	gcctaataaa	gagactgagc	cctg			3334

<210> 364
<211> 738
<212> DNA
<213> Homo sapiens

<400> 364	gtatctgtgg	taaacccagt	gacacgggg	agatgacata	aaaaaggc	aggacctgag	60
	aaagattaag	ctgcaggctc	cctgcccata	aaacagggtg	tgaaggcat	ctcagcggct	120
	gccccacca	gtctacctgg	gcctcctgc	tccttgcgc	catgtccctg	ggcaacccag	180
	gtctggctt	ctctctgtctg	agccctgagt	actacgacct	ggcaagagcc	cacctgcgtg	240
	atgaggagaa	atcctgcccc	tgcctggccc	aggagggccc	ccagggtgac	ctgttgacca	300
	aaacacagga	gctggccgt	gactacagga	cctgtctgac	gatagtccaa	aaactgaaga	360
	agatggtgg	taagccacc	cagagaagtg	tttccaatgc	tgcgacccgg	gtgtgttagga	420
	cggggagg	acgatggcgc	gacgtctgca	gaaatttcat	gaggaggtat	cagtctagag	480
	ttaccctagg	cctcggtggc	ggagaaaactg	cccagcagat	ctgtgaggac	ctcagggttgt	540
	gtataccctc	tacaggtccc	ctctgagccc	tctcaccttg	tcctgtggaa	gaagcacagg	600
	ctcctgtctt	cagatcccgg	gaacctcagc	aacctctgcc	ggctcctcgc	ttcctcgatc	660
	cagaatccac	tctccagtct	ccctccccctg	actccctctg	ctgtcctccc	ctctcacgag	720
	aataaaagtgt	caagcaag					738

<210> 365
<211> 878
<212> DNA
<213> Homo sapiens

<400> 365	cgattttca	ggttgattga	tgtggacag	cagccacaat	gaggaactcc	tatagatttc	60
	tggcatcc	tctctctgtt	gtcggttctc	tcctgtaat	tcctgaagat	gtctgtgaaa	120
	aaattattgg	aggaaatgaa	gtacttcctc	attcaagacc	ctacatggtc	ctacttagtc	180
	ttgacagaaa	aaccatctgt	gctggggctt	tgattgcaaa	agactgggtg	ttgactgcag	240
	ctcaactgtaa	cttgaacaaa	aggtcccagg	tcattttgg	ggctcactca	ataaccaggg	300
	aagagccaac	aaaacagata	atgctgtta	agaaaagagtt	tccctatcca	tgctatgacc	360
	cagccacacg	cgaaggtgac	cttaaacttt	tacagctgac	ggaaaaagca	aaaattaaca	420
	aatatgtgac	tatccat	ctacaaaa	agggggatga	tgtgaacca	ggaaccatgt	480

gccaaggttgc	agggtggggg	aggactcaca	atagtgcata	ttggtccgat	actctgagag	540
aagtcaatat	caccatata	gacagaaaag	tctgcaatga	tcgaaatcac	tataattta	600
accctgtgtat	tggaatgaat	atgggttg	ctggaaggct	ccgagggtgg	agagactcg	660
gcaatggaga	ttctggaagc	cctttgtgt	gcgagggtgt	tttccgaggg	gtcacttcct	720
ttggccttga	aaataaatgc	ggagaccctc	gtgggcctgg	tgtctatatt	cttctctcaa	780
agaaaacct	caactggata	attatgacta	tcaaggggac	agtttaataa	accgtttcct	840
ttcatttact	gtggcttctt	aatctttca	caaataaa			878
<210>	366					
<211>	576					
<212>	DNA					
<213>	Homo sapiens					
<400>	366					
actcttctgg	tccccacaga	ctcagagaga	accacccatg	gtgctgtctc	ctggccacaa	60
gaccaacgtc	aaggccgcct	gggtaaggt	cgccgcgcac	gtggcgagt	atggtgcgga	120
ggccctggag	aggatgttcc	tgtccttccc	caccaccaag	acctacttcc	cgcaacttcga	180
cctgagccac	ggctctgccc	aggtaaggg	ccacggcaag	aagggtggccg	acgcgctgac	240
caacgccgtg	gcccacgtgg	acgacatgcc	caacgcgtg	tccgcctga	gcgacactgca	300
cgccacaag	cttccgggtgg	accgggtcaa	cttcaagctc	ctaagccact	gcctgctggt	360
gaccctggcc	gcccacccctc	ccggcgagtt	cacccctcg	gtgcacgcct	ccctggacaa	420
gttcctggct	tctgtgagca	ccgtgctgac	ctccaaatac	cgttaagctg	gagcctcggt	480
ggccatgtctt	tttgccttccc	gggcctccccc	ccagccctc	ctcccttcc	tgcacccgtt	540
ccccctgtgtt	tttgaataa	agtctgagtg	ggcgcc			576
<210>	367					
<211>	589					
<212>	DNA					
<213>	Homo sapiens					
<400>	367					
accaaggcca	gtcctgagca	ggcccaactc	cagtgcagct	gcccacccctg	ccgcccattgc	60
tctgaccaag	actgagagga	ccatcattgt	gtccatgtgg	gccaagatct	ccacgcaggc	120
cgacaccatc	ggcacccgaga	ctctggagag	gtcttccctc	agccacccgc	agaccaagac	180
ctactcccg	cacttcgacc	tgcacccggg	gtccgcgcag	ttgcgcgcgc	acggctccaa	240
ggtgtggcc	gccgtgggcg	acgcggtgaa	gagcatcgac	gacatcgccg	gcccctgttc	300
caagctgagc	gagctgcacg	cctacatctt	gcccgtggac	ccggtaact	tcaagctctt	360

gtccccactgc	ctgctggtca	ccctggccgc	gcgcgttcccc	gccgacttca	cggcccaggc	420
ccacgcgcgc	tggacaagt	tcctatcggt	cgtatccctt	gtccctgaccg	agaagtaccg	480
ctgagcgcgc	cctccgggac	ccccaggaca	ggctgcggcc	cctcccccgt	cctggaggtt	540
ccccagcccc	acttaccgcg	taatgcgcga	ataaaccaat	gaacgaagc		589

<210> 368
<211> 626
<212> DNA
<213> Homo sapiens

<400> 368						
acatttgttctt	ctgacacaaac	tgtgttcaact	agcaacctca	aacagacacc	atgggtgcattc	60
tgactcctga	ggagaagtct	gcccgttactg	ccctgtgggg	caagggtgaac	gtggatgaag	120
tttgtgttga	ggccctgggc	aggctgttgg	tggtttaccc	ttggacccag	aggttttttt	180
agtccctttgg	ggatctgtcc	actcctgtat	ctgttatggg	caaccctaag	gtgaaggctc	240
atggcaagaa	agtgtcggt	gccttttagt	atggcctggc	tcacctggac	aacctaagg	300
gcacctttgc	cacactgagt	gagctgact	gtgacaagct	gcacgtggat	cctgagaact	360
tcaggctctt	gggcaacgtg	ctgggtgtgt	tgctggccca	tcactttggc	aaagaattca	420
ccccaccagt	gcaggctgccc	tatcagaag	tgggtggctgg	tgtggctaat	gccctggccc	480
acaagttatca	ctaagctcg	tttcttgcgt	tccaatttct	attaaagggtt	cctttgttcc	540
ctaagtccaa	ctactaaact	ggggatatt	atgaaggccc	ttgagcatct	ggattctgccc	600
taataaaaaaa	catttatttt	cattgc				626

<210> 369
<211> 624
<212> DNA
<213> Homo sapiens

<400> 369						
acactttctt	ctgacataac	agtgttcaact	agcaacctca	aacagacacc	atgggtgcattc	60
tgactcctga	ggagaagact	gctgtcaatg	ccctgtgggg	caaagggtgaac	gtggatgcag	120
tttgtgttga	ggccctgggc	agattactgg	tggtttaccc	ttggacccag	aggttttttt	180
agtccctttgg	ggatctgtcc	tctcctgtat	ctgttatggg	caaccctaag	gtgaaggctc	240
atggcaagaa	ggtgtctagg	gccttttagt	atggcctggc	tcacctggac	aacctaagg	300
gcacttttttc	tcagctgagt	gagctgact	gtgacaagct	gcacgtggat	cctgagaact	360
tcaggctctt	gggcaatgtg	ctgggtgtgt	tgctggccca	caactttggc	aaggaattca	420
ccccacaaaat	gcaggctgccc	tatcagaagg	tgggtggctgg	tgtggctaat	gccctggctc	480
acaagttatca	ttgagatctt	ggactgtttc	ctgataacca	taagaagacc	ctatccct	540

agattctatt ttctgaacctt gggAACACAA tgcctacttc aagggtatgg cttctgccta	600
ataaagaatg ttcagctcaa cttc	624
<210> 370	
<211> 816	
<212> DNA	
<213> Homo sapiens	
<400> 370	
caacaaaaaa gaggcctcagg atccagcaca cattatcaca aacttagtgt ccatccatca	60
ctgtgtgacc tctccggacc tgactccacc cctgaggac acagggtcgc cttgaccaat	120
gacttttaag taccatggag aacagggggc cagaacttcg gcagtaaaga ataaaaggcc	180
agacagagag gcagcagcac atatctgctt ccgacacagc tgcaatcaat agcaagctct	240
caggcctggc atcatgggtc attttactgc tgaggagaag gctgccgtca ctggcctgt	300
gagcaagatg aatgtggaaag aggctggagg tgaaggcttg ggccagactcc tcgttggta	360
ccccctggacc cagagattt ttgacagctt tggaaacctg tcgtctccct ctggccatcc	420
ggccaacccc aaggtaagg cccatggcaa gaagggtcgt acttcctttg gagatgttat	480
taaaaaacatg gacaacctca agcccgccct tgctaaatgtc agtggactgc actgtgacaa	540
gctgcattgtc gatcctgaga acttcaagct cctgggtaaac gtgtatggta ttattctggc	600
tactcacttt ggcaaggagt tcacccctga agtgcaggct gcctggcaga agtgggtgtc	660
tgctgtcgcc attggccctgg cccataaata gactgtgtt ctcttccagt ttgcagggtgt	720
tcctgtgacc ctgacaccct cttctgcac atggggactg ggcttggccct tgagagaaaag	780
ccttcgtttt ataaaagtac attttcttca gtaatc	816
<210> 371	
<211> 584	
<212> DNA	
<213> Homo sapiens	
<400> 371	
acactcgctt ctggAACGTC tgagggttata aataagctcc tagtccagac gccatgggtc	60
atttcacaga ggaggacaag gctactatca caaggctgtg gggcaagggtg aatgtggaaag	120
atgctggagg agaaaccctg ggaaggctcc tgggtgtcta cccatggacc cagagggtct	180
ttgacagctt tggcaacctg tcctctgcct ctggccatcat gggcaacccc aaagtcaagg	240
cacatggcaa gaagggtcgt acttccttgg gagatgccac aaagcacctg gatgtatca	300
agggcacctt tgcccagctg agtgaactgc actgtgacaa gctgcattgtc gatcctgaga	360
acttcaagct cctggaaat gtgtatggta ccgtttggc aatccatttc ggcaaagaat	420

tcacccctga ggtgcaggct tcctggcaga agatggtac tgcagtgcc a gtgcctgt	480
cctccagata ccactgagct cactgccccat gattcagagc tttcaaggat aggcttatt	540
ctgcaagcaa tacaaataat aaatctattc tgctgagaga tcac	584

<210> 372
<211> 651
<212> DNA
<213> Homo sapiens

<400> 372 atcgagcgcg cgccggcccg ggatctccga cgaggccctg gaccccccggg cggcgaagct	60
ggggcgccggc gccccctgga ggccgcggga cccctggcccg gtccgcgcag ggcgcggg	120
gtcgccggcc gggcgggggtt ccagcgcggg gatggcgctg tccgcggagg accggggcgt	180
ggtgtgcgcct ctgttggaaa agctggcgac caacgtcgcc gtctcacacga cagaggccct	240
ggaaaggacc ttcttggctt tccccggccac gaagacctac ttctccacc tggaccttag	300
ccccggctcc tcacaagtca gagccacacgg ccagaagggtg gccgcgcgc tgagcctcgc	360
cgtggagcgc ctggacgacc taccggacgc gctgtccgcg ctgagccacc tgacgcgtg	420
ccagctgcga gtggaccggg ccagcttcca gtcctgggc cactgcctgc tggtaaccct	480
cgccggcgcac taccggag acttcagccc cgcgcgtcag gcgtcgtgg acaagttccct	540
gagccacgtt atctcgccgc tggtttccga gtaccgtga actgtgggtg ggtggccgcg	600
ggatccccag ggcacccatcc ccgtgtttga gtaaaggcctc tcccaggagc a	651

<210> 373
<211> 1157
<212> DNA
<213> Homo sapiens

<400> 373 gctcacaatgc atcaattata gaccccacaa catgcgcctt gaagacagaa tggatccatat	60
caagacgtgt atcttggagag cccttcctt ggctttctgt ctgagtcctcc gaggagctgg	120
ggccatcaag gcccggccatg tgtcaactta tgccgcgttt gtacagacgc atagaccaac	180
agggggatttt atgtttgaat ttgatgaaga tgagatgttc tatgtggatc tggacaagaa	240
ggagaccgtc tggcatctgg aggagtttg ccaagccctt tcctttgagg ctcaggccgg	300
gctggctaac attgcttatat tgaacaacaa cttgaataacc ttgatccagc gttccaaacca	360
cactcaggcc accaacgtac cccctggatgtt gaccgtgttt cccaaaggagc ctgtggatgt	420
ggcccgccccc aacacccctca tctgccacat tgacaaggatc ttcccccaccag tgctcaacgt	480
cacgtggctg tgcaacgggg agctggtcac tgagggtgtc gctgagagcc tcttcctgc	540
cagaacacat tacagcttcc acaagttcca ttacatgtacc tttgtggccct cagcagagga	600

cttctatgac	tgcagggtgg	agcactgggg	cttggaccag	ccgctcctca	agcactggga	660
ggcccaagag	ccaatccaga	tgcctgagac	aacggagact	gtgctctgtg	ccctgggcct	720
ggtgctggc	ctagtcggca	tcatecggtgg	caccgtcctc	atcataaaagt	ctctgcgttc	780
tggccatgac	ccccggggcc	aggggaccct	gtgaaatact	gtaaagggtga	caaataatct	840
gaacagaaga	ggacttagga	gagatctgaa	ctccagctgc	cctacaaaact	ccatctcagc	900
ttttcttc	acttcatgt	aaaactactc	cagtggtgtga	ctgaaattgtct	gacccttcaa	960
gtctgtct	tatccattac	ctcaaaggcag	tcattcccta	gtaaaggttc	caacaataat	1020
aaattaatga	cactttggta	gcactaatat	ggagattatc	ctttcattgt	gccttttata	1080
ctctgttctc	cttgaagaa	cccctcactg	tcacccccc	gagaatacc	taagaccaat	1140
aaatactca	gtat	ttc				1157

<210>	374						
<211>	1096						
<212>	DNA						
<213>	Homo sapiens						
<400>	374						
atgatcctaa	acaaagctct	gctgctgggg	gccctcgctc	tgaccaccgt	gatgagcccc	60	
tgtggaggtg	aagacattgt	ggctgaccac	gttgcctctt	gtgggtgtaaa	cttgtaccag	120	
tttacggtc	cctctggcca	gtacacccat	gaatttgcgt	gagatgagca	gttctacgtg	180	
gacctggaga	ggaaggagac	tgcctggcg	tggcctgagt	tcagcaaatt	tggaggtttt	240	
gaccgcagg	gtgcactgag	aaacatggct	gtggcaaaac	acaacttgaa	catcatgatt	300	
aaacgcgtaca	actctaccgc	tgctaccaat	gagggtccctg	aggtcacagt	gttttcaag	360	
tctcccggtg	actgggtca	gcccaacacc	ctcatttgc	ttgtggacaa	catcttct	420	
cctgtggtca	acatcacatg	gctgagcaat	gggcagtcag	tcacagaagg	tgttctgag	480	
accagcttc	tctccaagag	tgatcatcc	ttcttcaaga	tcagttacct	cacccctc	540	
ccttctgctg	atgagattt	tgactgcaag	gtggagact	ggggcctgga	ccagccttct	600	
ctgaaacact	gggagcctga	gattccagcc	cctatgtcag	agtcacaga	gactgtggtc	660	
tgtgcctgg	ggttgtctgt	ggccctcatg	ggcattgtgg	tgggactgt	cttcatcatc	720	
caaggcctgc	gttcagttg	tgcttccaga	caccaaggcc	cattgtgaat	cccatcctgg	780	
agggaaggt	gcatcgccat	ctacaggagc	agaagaatgg	acttgcataa	tgacctagca	840	
ctattctctg	gcccattta	tcatatccct	tttctctcc	aaatatttct	cctctcacct	900	
tttctctgg	acttaagctg	tstatatcccc	tcagagctca	caaatgcctt	tacattcttt	960	
ccctgaccc	ctgat	tttt	tttcc	tcaaatgtta	cctacaatac	atgcctgggg	1020

taagccaccc ggctacctaa ttccctcgtat acctccatct aaaatctcca aggaagcaat	1080
aaattccttt tatgag	1096
<210> 375	
<211> 1182	
<212> DNA	
<213> Homo sapiens	
<400> 375	
tagtttcccc tgagttagac ttgcgtgttt ctctggcccc tggtcctgtc ctgttctcca	60
gcatgggttg tctgaagctc cctggaggct cctgcgtac agcgtgtaca gtgacactga	120
tgggtgtcgat ctccccactg gctttggctg gggacacccg accacgtttc ttgtggcagc	180
ttaagtttga atgtcatatc ttcaatggga cggagcgggt gcggttgtg gaaagatgca	240
tctataacca agaggaggctc gtgcgttctcg acagcgtac gggggaggtac cgggcgggtga	300
cggagctggg cggcgtctgtat gcccgtact ggaacagccca gaaggacctc ctggcgtcaga	360
ggcggggccgc ggtggacacc tactgcgtac acaactacgg gggtggtag agcttcacag	420
tgcagcggcg agtttgcgtt aagggtactg tgcgtatccaa agaccccg cccctgcgtc	480
accacaacct cctgggtctgc tctgtgtatgt gtttctatcc aggcgttgcgtt gaagtgttgt	540
ggttccggaa cggccaggaa gagaaggctg gggtgggtgc cacaggcctg atccagaatg	600
gagattggac cttccagacc ctgggtgtgc tggaaacagt tcctcggtggat ggagagggtt	660
acacactgcca agtggagcac ccaagtgtga cgagccctct cacagtggaa tggagagcac	720
ggtctgaatc tgcacagagc aagatgtgtatgc ttggagtcgg gggcttcgtt ctggccctgc	780
tcttccttgg ggcggggctg ttcatctact tcaggaatca gaaaggacac tctggacttc	840
agccaaacagg attccctgagc tggaaatgcgtatgacccatatc tcaagggaaa accttctgtc	900
ccagctttgc agaatgaaaa gtttccctgc ttggcgttta ttcttccaca agagagggtt	960
ttctcaggac ctgggtgtca ctgggtcgac aactgcgtatgg aatgtctcc tttgtggat	1020
cctcagctcc tggcccttggc ctggaaatgcgtatgg acgttgcgtt acagcgttgcgtt atcttcaact	1080
tttgcgttgc ctttgcgtatgg aaccgttatgg cttccctgc atctgtactc accctgtacg	1140
acaaacacat tacatttata aatgtttctc aaagatggag tt	1182
<210> 376	
<211> 2610	
<212> DNA	
<213> Homo sapiens	
<400> 376	
ggactgtttaa ctgtttctgg caaacatgaa gtcaggcctc tggatattct ttcttctgt	60

cttgcgcatt aaagtttaa caggagaaat caatggttct gccaattatg agatgtttat	120
atttcacacaac ggaggtgtac aaatttatg caaatatcct gacattgtcc agcaatttaa	180
aatgcagttg ctgaaagggg ggcaaatact ctgcgatctc actaagacaa aaggaagtgg	240
aaacacagtg tccattaaga gtctgaaatt ctgcattctc cagttatcca acaacagtgt	300
ctttttttt ctatacaact tggaccattc tcatgccaac tattacttct gcaacacctc	360
aattttgat ctccttcctt ttaaagtaac tcttacagga ggatatttgc atatttatga	420
atcacaactt tggtgccagc tgaagttctg gttaccata ggatgtgcag ctttgttgc	480
agtctgcatt ttggatgca tacttatttg ttggcttaca aaaaagaagt attcatccag	540
tgtgcacgac cctaacgggt aatacatgtt catgagagca gtgaacacag ccaaaaaatc	600
tagactcaca gatgtgaccc tataatatgg aactctggca cccaggcatg aagcacgttg	660
gccagttttc ctcaacttga agtgcagat tcttttattt ccgggaccac ggagagtctg	720
acttaactac atacatcttc tgctgggtt ttgttcaatc tggagaatag actgtatcat	780
tcaatgggaa ttttaacaga ctgccttggt actgcccagt cctctaaaa caaacaccct	840
cttgcacca gctttggaga aagcccagt cctgtgtct cactgggagt ggaatccctg	900
tctccacatc tgctcttagc agtgcatcg ccagtaaaac aaacacattt acaagaaaaa	960
tgtttaaag atgccagggg tactgaatct gcaaagcaaa tgagcagcca aggaccagca	1020
tctgtccgca ttcaactatc atactacctc ttctttctgt agggatgaga attcctctt	1080
taatcgtca agggatgct ttcaaagctg gagctatttt atttctgaga tggtatgt	1140
aactgtacat tagtacatac tcagttactt cttcaattt ctgaacccca gttgaccatt	1200
ttaccaagac tttagatgct ttcttgcctca atttttttca tttttaaaaa tacttctaca	1260
tgactgtttt acagcccaac agccactctc aatagagac tatgtcttac attcttct	1320
ctgctgctca atagtttat atatctatgc atacatatat acacacatat gtatataaaa	1380
ttcataatga atatattgc ctatattctc cttacaagaa tttttgtct ccagaaagac	1440
atgttctttt ctcaaattca gttaaaatgg tttactttgt tcaagttagt ggtaggaaac	1500
attgcccggaa attgaaagca aattttatattt attatcctat tttctaccat tatctatgtt	1560
ttcatgggtc tattaattac aagtttagtt ctttttgc tag atcatattaa aattgcaaac	1620
aaaatcatct ttaatgggcc agcattctca tggggtagag cagaatattc atttagcctg	1680
aaagctgcag ttactatagg ttgctgtcag actataccca tgggtgcctc gggcttgaca	1740
ggtccaaatg gtccccatca gcctggagca gccctccaga cctgggtgga attccagggt	1800
tgagagactc ccctgagcca gaggccacta ggtattctg ctcccagagg ctgaagtac	1860
cctggaaatc acagtggctc acctgcattc ataattccag gatctgtgaa gagcacat	1920

tgtcagggc acaattccct ctcataaaaa ccacacagcc tggaaatgg ccctggccct	1980
tcaagatagc cttctttaga atatgatttg gctagaaaaga ttcttaaata tgtggaatat	2040
gattattctt agctggaaata tttctctac ttccctgtctg catggccaaag gcttctgaag	2100
cagccaatgt cgatgcaaca acatttgtaa cttaggtaa actgggattt tggttagtt	2160
taacattttg taactgtgtc cttatagttt acaagtggaa cccgatatgt cattatgtcat	2220
acttatatttata tcttaagcat gtgtaatgct ggatgtgtac agtacagtttca ttacttgta	2280
atttgaatct agtatggtgt tctgtttca gctgacttgg acaacactgac tggctttgca	2340
cagggtttcc ctgagttgtt tgccagggttcc tggatgtgtgg gttgggtatgg gggaggagaa	2400
ccttcatggt ggccccacccgt gcctgggtgtt ccaagctgtg cctcgacaca tcctcatcccc	2460
aagcatggga cacctcaaga tgaataataa ttccaaaaat ttctgtgaaa tcaaattccag	2520
ttttaagagg agccactttt caaagagatt ttaacatgtg taagaaggca aagaataaac	2580
atttatgtattt cggcaactgaa aaaaaaaaaaa	2610

<210> 377
<211> 1145
<212> DNA
<213> *Homo sapiens*

<400> 377
attctctccc cagttgctg agcccttgc tccccggc actgcctgga cagtcagcaa 60
gaaattgtct cccagtgcac tttgcctcc tggctgcca ctctggctgc taaaagcgct 120
gccacctgct gcagtctaca cagcttcggg aagaggaaag gaaacctcaga ctttccagat 180
cgcttcctct cgcaacaaac tatttgcgc aggaataaag atggctgctg aaccagttaga 240
agacaattgc atcaactttg tggcaatgaa atttattgac aatacgtttt actttatagc 300
tgaagatgat gaaaacctgg aatcagatta ctttgcaag cttgaatcta aattatcgt 360
cataagaaat ttgaatgacc aagttctctt cattgaccaa ggaaatcgcc ctcttattgt 420
agatatgact gattctgact gttagataa tgcaccccg accatattta ttataaagtat 480
gtataaagat agccagccta gaggtatggc tgtaactatc tctgtgaagt gtgagaaaaat 540
ttcaactctc tcctgtgaga acaaaattat ttcccttaag gaaatgaatc ctccctgataa 600
catcaaggat acaaaaagtg acatcatatt ctttcagaga agtgtcccgag acatgataaa 660
taagatgcaat tttgaatctt catcatacga aggatacttt ctatgttgc aaaaagagag 720
agaccttttt aaactcattt tgaaaaaaga ggatgaattt gggatagat ctataatgtt 780
cactgttcaa aacgaagact agcttattttt atttcatgcc gggcgcagtt gctcacgcct 840
gtaatccccag cccttggqa qqctqaaqqcq qqcaqatcac caqaaqtcaq qtqttcaqaq 900

ccagcctgac caacatggtg aaacctcatc tctactaaaa atacaaaaaa ttagtgcgt	960
gtagtgcacgc atgcctcaa tcccagctac tcaagaggct gaggcaggag aatcaattgc	1020
actccggagg tagaggttgt ggtgacccga gattgcacca ttgcgtctca gcctgggcaa	1080
caacagcaaa actccatctc aaaaaataaa ataaataat aaacaataa aaaattcata	1140
atgtg	1145

<210> 378
<211> 924
<212> DNA
<213> Homo sapiens

<400> 378	
cagagcccca cgaaggacca gaacaagaca gagtgcctcc tgccgatcca aacatgagcc	60
gcctgcccgt cctgtccctg ctccaaactcc tggtccgccc cgactccaa gctcccatga	120
ccccagacaac gcccctaag acaagctggg ttaactgctc taatcatgatc gatgaaaatta	180
taaacacactt aaagcagcca ctttcgcctt tgctggactt caacaacctc aatggggaaag	240
accaagacat tctgtatggaa aataacccctt gaaggccaaa cctggaggca ttcaacaggg	300
ctgtcaagag ttacagaacac gcatcagcaa ttgagagcat tctttttttt ctcctgcct	360
gtctgcccgtt ggccacggcc gcacccacgc gacatccat ccatatcaag gacgggtact	420
ggaatgaatt cggaggaaa ctgacgttct atctgaaaac ctttggaaat ggcggggctc	480
aacagacgc tttggccctc gcatatccccctt gagtccaaacg tccagctcg tctctggcc	540
ttctcaccac agagcctcg gacatcaaaa acagcagaac ttctgaaacc tctgggtcat	600
ctctcacaca ttccaggacc agaagcattt cacctttcc tgcggcatca gatgaattgt	660
taatttatcta atttctgaaa tgtgcagctc ccattttggcc ttgtgcgtt gtgttctcat	720
ttttatccca ttgagactat ttatccatgt atgtatgtat ttatccatgtt attgcctggaa	780
gtgtgaaactg tattttttt agcagaggag ccatgtccctg ctgcgttgc aaaaaactca	840
gagtggggtg gggagcatgt tcattttgtac ctgcgtttt aaactggttc ctaggatgt	900
gtgagaataaa actagactct gaac	924

<210> 379
<211> 4932
<212> DNA
<213> Homo sapiens

<400> 379	
ggcaggac acctggattt cattagaatg agactcaacta cccagttcg gtgtgttgc	60
ttgtgggtct ccggcacatt tcagaggctg attaggaccc tgacccacca ctggggttta	120

caccctaaa agcaggtgtg tcccgtggca actgagtggg tgcgtaaaa gggggatca 180
 tcattacca gctggagcaa tcgaatcggt taaatgtgaa tcaagtcaca gtgccttcctt 240
 aacccaacct ctctgttggg gtcagccaca gcctaaaccg cctgcgttc acgcctgagag 300
 gctgctgcta gcctgctcac gcatgcagcc cgggctgcag aggaagtgtg gggaggaagg 360
 aagtgggtat agaagggtgc tgagatgtgg gtcttgaaga gaatagccat aacgttttg 420
 tcactaaat gttccccagg ggccttcggc gagttttttt gtttgggttt ttgttttaa 480
 tctgtggctc ttgataattt atctagtggt tgcc tacacc tgaaaaacaa gacacagtgt 540
 ttaactatca acgaaaagAAC tggacggctc cccgcgcag tcccactccc cgagttgtg 600
 gctggcattt gggccacgcg gggctgggg gctc acageg aggggcgcgc agtttgggt 660
 cacacagctc cgcttctagg ccccaaccac cgtaaaagg ggaagccgt gccccatcag 720
 gtcgcgttctt gctgagccca gagccatccc gcgcgtctcg ggctgggggg cccggccag 780
 acgcgagtc tgcgacgcg aggttccca ggcgcgcgcg cagccgcgcg taggcagaga 840
 cggagcccg ccctgcgcct ccgcaccacg cccggaccc cacccagcgg cccgtacccg 900
 gagaagcgcg gcgagcaccc gaagtcggc gtcggccgc agaaaccggg agtggggccg 960
 ggcgagtgcg cggcatccca ggccggcccg aacgtccgcg cgcgggtggc cgacttcccc 1020
 tcccttccc tctctccctt ctttagcccg ctggcgccgg acacgtcgcg cctcatctct 1080
 tggggcggtc tccccgggtg gccaaccgtc gcattccgtg caacttggg gtagtggccg 1140
 ctttagtggg aatgttcccc accgagacgc catggcttg ggagcgaggc gccaaccggg 1200
 gccccgaagc cgccgtcccg gagacgggtga tgctgtgt gtcgcctggg gtcggacccg 1260
 gcccggcccta caacgtggac actgagacgc cgctgttta ccaggggccc cacaacacgc 1320
 tgttcggtca ctccgtcggt ctgcacagcc acggggcgaa ccgatggctc ctatgggtg 1380
 cgcccaactgc caactggctc gccaacgctt cagtgatcaa tcccgccgg attacagat 1440
 gcaggatcg aaagaatccc ggcgcacacgt gcaacacgt ccagctgggt agccctaattg 1500
 gagaacccttg tggaaagact tggttggaaag agagagacaa tcagtggtt ggggtcacac 1560
 ttcccagaca gccaggagaa aatggatcca tctgtacttg tggcataga tggaaaaata 1620
 tattttacat aaagaatgaa aataagctcc ccactgggtt tgcttatgg gtcggccctg 1680
 atttacgaac agaactgagt aaaagaatag ctccgtgttca acaagattat gtgaaaaaat 1740
 ttggagaaaa ttttgcata tgcataagctg gaataatccag tttttacaca aaggatttaa 1800
 ttgtgtggg ggcccccaggaa tcatcttact ggactggctc tcttttgcata tacaatataa 1860
 ctacaataaa atacaaggct ttttagaca aacaaaatca agtaaaattt ggaagttatt 1920
 taggatattc agtcggagct ggtcatttc ggagccagca tactaccgaa gtgtcgagg 1980

agaccccttcaa	aggcatatgtc	cggtttttgt	ccaagactga	taagaggcta	ttgtactgca	3840
taaaagctga	tccacattgt	ttaaaattct	tgtgtatTTT	tggaaaatg	gaaagtggaa	3900
aagaagccag	tgttcatatc	caactgaaag	gccggccatc	cattttgaa	atggatgaga	3960
cttcagcact	caagttgaa	ataagagcaa	caggTTTCC	agagccaaat	ccaagagtaa	4020
ttgaactaa	caaggatgag	aatgttgcgC	atgttctact	ggaaggacta	catcatcaaa	4080
gaccCAAACG	ttatTCacc	atagtgatta	tttcaagtag	cttgcTactt	ggacttattg	4140
tacttctgtt	gatctcatat	gttatgtgga	aggctggctt	ctttaaaaga	caatacaaat	4200
ctatcctaca	agaagAAAAC	agaagagaca	gttggagtt	tatcaacagt	aaaagcaatg	4260
atgattaagg	acttCTTCA	aattgagaga	atggAAAACA	gactcaggTT	gtagtaaaga	4320
aatttaaaAG	acactgttta	caagaaaaAA	tgaattttgt	ttggacttct	tttactcatg	4380
atcttctgtac	atattatgtc	ttcatgcAAG	gggAAAATCT	cagcaatgt	tactcttga	4440
gatagaagaa	ctgcaaaggT	aataatacag	ccaaagataa	tctctcaget	tttaaatggg	4500
tagagaaaca	ctaaagcatt	caatttattc	aagaaaagta	agccCTTGA	gatatcttga	4560
aatgaaaAGTA	taactgagtt	aaattatact	ggagaagtct	tagacttgaa	atactactta	4620
ccatatgtgc	ttgcctcagt	aaaatgaacc	ccactgggtg	ggcagaggtt	catttcaaat	4680
acatctttga	tacttgttca	aaatatgttc	tttaaaaata	taatTTTTA	gagagctgtt	4740
ccaaatTTT	ctaacgagtg	gaccattatc	actttaaAGC	cTTTATTtA	taatacattt	4800
cctacgggct	gtgttccAAC	aaccatTTT	tttcagcaga	ctatgaatat	tatagtatta	4860
taggccaaAC	tggcaaactt	cagactgaac	atgtacactg	gtttgagctt	agtgaarda	4920
cttccggaaat	CT					4932

<210> 380
<211> 4740
<212> DNA
<213> Homo sapiens

<400> 380	tggcttcctt	gtggTTcctc	agtggTgcct	gcaaccccTG	gttcacCTCC	ttccaggTTc	60
	tggcttcctt	cagccatggc	tctcagatgc	cttctgttaa	cagcCTTgac	cttatgtcat	120
	gggttcaact	tggacactga	aaacgcAatg	accttccaAG	agaacgcAAG	gggCTTCGGG	180
	cagagcgtgg	tccagatTTCA	gggatccagg	gtggTggTTG	gagcccccca	ggagatagtg	240
	gtgtccAAAC	aaaggggcAG	cctctaccAG	tgcgactaca	gcacaggCTC	atgcgagccc	300
	atccgcCTGc	aggTcccCGT	ggagggcCGTg	aacatgtccc	tggcCTGTc	cctggcagcc	360
	accaccaGcc	cccCTcagCT	gtcggcCTGT	ggTcccACCG	tgcaccAGAC	ttgcagttag	420

aacacgtatg	tgaaagggtct	ctgcttcctg	tttggatcca	acctacggca	gcagccccag	480
aagttcccg	aggcccctcg	agggtgtct	caagaggata	gtgacattgc	cttcttgatt	540
gatggctctg	gtagcatcat	cccacatgac	tttcggcgg	tgaaggagtt	tgtctcaact	600
gtatggagc	aattaaaaaa	gtccaaaacc	ttgttcttt	tgatgcagta	ctctgaagaa	660
ttccggattc	actttacctt	caaagagttc	cagaacaacc	ctaaccbaag	atcactggtg	720
aagccaataa	cgcagctgt	tggcggaca	cacacggcca	cgggcatccg	caaagtggta	780
cgagagctgt	ttaacatcac	caacggagcc	cgaagaatg	cctttaagat	cctagttgtc	840
atcacggatg	gagaaaagtt	tggcgatccc	ttgggatatg	aggatgtcat	ccctgaggca	900
gacagagagg	gagtcatcg	ctacgtcatt	gggggtggag	atgccttccg	cagtgagaaa	960
tcccgccaaag	agcttaatac	catcgatcc	aagccgcctc	gtgatcacgt	gttccagggt	1020
aataactttg	aggctctgaa	gaccattcg	aaccagcttc	gggagaagat	ctttgcgatc	1080
gagggtactc	agacaggaag	tagcagctcc	tttgagcatg	agatgtctca	ggaaggcttc	1140
agcgctgcc	tcacctctaa	tggcccttg	ctgagcactg	tggggagcta	tgactgggt	1200
gggtggagtct	ttcttatatac	atcaaaggag	aaaagcacct	tcatcaacat	gaccagagt	1260
gattcagaca	tgaatgtatgc	ttacttgggt	tatgtgcgc	ccatcatctt	acggaaccgg	1320
gtgcaaagcc	tggttctggg	ggcacctcg	tatcagcaca	tcggcctgg	acgcgttgtc	1380
aggcagaaca	ctggcatgtg	ggagtccaa	gctaattgtca	agggcaccca	gatcgccgccc	1440
tacttgcggg	cctccctctg	ctccgtggac	gtggacagca	acggcagcac	cgacctggtc	1500
ctcatcgggg	ccccccatta	ctacgagcag	acccgagggg	gccaggtgtc	cgtgtcccc	1560
ttggccaggg	ggagggtctcg	gtggcagtgt	gatgtgttc	tctacgggaa	gcagggccaa	1620
ccctggggcc	gtttggggc	agccctaaca	gtgctgggg	acgttaatgg	ggacaagctg	1680
acggacgtgg	ccattggggc	cccaggagag	gaggacaacc	gggggtgtgt	ttacctgttt	1740
cacggaaacct	caggatctgg	catcagcccc	tcccatagcc	agcggatagc	aggctccaaag	1800
ctctctccca	ggctccaga	ttttggtcag	tcactgagtg	ggggccagga	cctcacaatg	1860
gatggactgg	tagacctgac	tgttaggagcc	caggggcacg	tgctgtgtc	caggccccag	1920
ccagttactga	gagtcaaggc	aatcatggag	ttcaatccca	ggaaagtggc	aaggaatgt	1980
tttgagtgta	atgatcagg	ggtgaaaggc	aaggaagccg	gagaggtcag	agtctgcctc	2040
catgtccaga	agagcacacg	ggatccggta	agagaaggac	agatccacag	tgttgtgact	2100
tatgacccgg	ctctggactc	cgccgcggca	catccccgcg	ccgttctca	tgagacaaag	2160
aacagcacac	gcagacacag	acagggttt	gggctgaccc	agacttgta	gaccctgaaa	2220
ctacagttgc	cgaattgcat	cgaggaccca	gtgagcccca	ttgtgtgtcg	cctgaacttc	2280

tctctggtgg	gaacgccatt	gtctgcttc	ggaaacctcc	ggccagtgct	ggcgaggat	2340
gctcagagac	tcttcacagc	cttgtttccc	tttggagaaga	attgtggcaa	tgacaacatc	2400
tgccaggatg	acctcagcat	cacccctcagt	ttcatgagcc	tggactgcct	cgtgggggt	2460
ggggccccggg	agttcaacgt	gacagtgact	gtgagaaaatg	atggtgagga	ctccctacagg	2520
acacagggtca	ccttcttctt	cccgcttgac	ctgtccctacc	ggaagggtgc	cacactccag	2580
aaccaggcgt	cacagcgatc	ctggccctcg	gcctgtgagt	ctgcctccctc	caccgaagtg	2640
tctggggcct	tgaagagcac	cagctgcagc	ataaacccacc	ccatcttccc	ggaaaactca	2700
gaggtcaccc	ttaatatcac	gtttgatgta	gactctaagg	cttcccttgg	aaacaaactg	2760
ctcctcaagg	ccaatgtgac	cagtggaaac	aacatggccca	gaaccaacaa	aaccgaattc	2820
caactggagc	tgccggtaa	atatgctgtc	tacatggtgg	tcaccageca	tggggctc	2880
actaaatatac	tcaacttcac	ggcctcagag	aataccagtc	gggtcatgca	gcatcaatat	2940
caggtcagca	acctggggca	gaggagcccc	cccatcagcc	tgggttttt	ggtgcggcgtc	3000
cggctgaacc	agactgtcat	atgggaccgc	ccccaggta	ccttctccga	gaacctctcg	3060
agtaegtgcc	acaccaagga	gogcttgccc	tctcactccg	actttctggc	tgagcttcgg	3120
aaggcccccg	tggtgaactg	ctccatcgct	gtctgcccaga	gaatccagtg	tgacatcccc	3180
ttctttggca	tccaggaaga	attcaatgt	accctcaaag	gcaacctctc	gtttgactgg	3240
tacatcaaga	cctcgcataa	ccacccctcg	atcgtgagca	cagctgagat	cttgtttaac	3300
gattccgtgt	tcaccctgt	gccccggacag	ggggcgtttg	tgagggttcca	gacggagacc	3360
aaagtggagc	cgttcgaggt	ccccaaaccc	ctggccgtca	tcgtggcag	ctctgtcggt	3420
ggactgctgc	tcctggccct	catcaccgccc	gctgtgtaca	agctggcctt	cttcaagcgg	3480
caatacaagg	acatgtatgag	tgaaggggg	ccccgggggg	ccgaaacccca	gtagcggctc	3540
cttcccgaca	gagctgcctc	tcggtgccca	gcaggactct	gcccagacca	cacgagcccc	3600
caggctgctg	gacacgtcg	acagegaagt	atccccgaca	ggacggcctt	gggcttccat	3660
tttgtgtgt	gcaagtgtgt	atgtgcgtgt	gtgcgagtgt	gtgcaagtgt	ctgtgtgcaa	3720
gtgtgtgcac	gtgtgcgtgt	gctgtgtatgt	gcactcgac	gccccatgtgt	gagtgtgtgc	3780
aagtatgtga	gtgtgtccag	tgtgtgtcg	tgtgtccatg	tgtgtgcagt	gtgtgcatgt	3840
gtgcgagtgt	gtgcgtgtgt	gtgcgtcagg	gctgtggcct	acgtgtgtga	ctcagagtgt	3900
ccttggcggt	tgggttaggt	acggcagcgt	agcccttcgg	gcagaaggga	actgcctggg	3960
ctcccttgtg	cgtgggtaag	ccgctgctgg	gtttccctcc	gggagagggg	acggtaatc	4020
ctgtgggtga	agagagaggg	aaacacagca	gcatctctcc	actgaaagaa	gtgggacttc	4080

ccgtcgccctg	cgagcctgcg	gcctgctgga	gcctgcgcag	cttggatgga	tactccatga	4140
aaaaaggccgt	gggtggAAC	aggagccctc	tccacaccag	cgctgatgcc	caataaaagat	4200
gcccactgag	gaatcatgaa	gcttccttgc	tggattcatt	tattatttca	atgtgacttt	4260
aattttttgg	atggataagc	ctgtctatgg	tacaaaaatc	acaaggcatt	caagtgtaca	4320
gtgaaaaggc	tcccttcca	gatattcaag	tcacccctt	aaaggttagc	aagattgtgt	4380
tttgagggtt	cttcagaca	gattccaggc	gatgtcaag	tgtatgcacg	tgtgcacaca	4440
ccacacacat	acacacacac	aagcttttt	acacaaatgg	tagcatactt	tatattggtc	4500
tgtatcttgc	ttttttcac	caatatttct	cagacatcg	ttcatattaa	gacataaaatt	4560
actttttcat	tcttttatac	cgctgcata	tattccattg	tgtgagtgt	ccataaatgt	4620
tttaaccagt	cttcttttga	tatactatTT	tcatctcttgc	ttattgcate	tgctgaggtt	4680
ataaatcaa	tatatgtcaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaat	4740

<210> 381
<211> 2798
<212> DNA
<213> Homo sapiens

<400> 381						
cgttgtgtc	gctctgcacg	cacctatgt	gaaactaaag	cccagagaga	aagtctgact	60
tgccccacag	ccagtgtgt	actgcagcag	caccagaatc	tggctgttt	cctgtttggc	120
tcttctacca	ctacggcttgc	ggatctcg	catgggtgg	ttgccaatgg	tccttgtttt	180
gctgctggc	ctgagcagag	gtgagagtga	attggacgc	aagatccat	ccacagggga	240
tgccacacaa	tggcgaatc	ctcacctgtc	catgtgggg	tcctgccagc	cagccccctc	300
ctgcccagaag	tgcacccctct	cacacccag	ctgtcatgg	tgcaagcaac	tgaacttcac	360
cgcgctggaa	gaggcggagg	cgccgcgtc	ccccgacga	gaggagctc	tggctcgagg	420
ctgcccgtc	gaggagctgg	aggagccccg	cgccagcag	gagggtgtc	aggaccagcc	480
gctcagccag	ggcgcccccg	gagagggtc	cacccagctg	gcccgcagc	gggtccgggt	540
cacgctgcgg	cctggggagc	cccagcagct	ccaggctccgc	ttccttcgt	ctgagggata	600
ccccgtggac	ctgtactacc	ttatggact	gagctactcc	atgaaggacg	acctggAAC	660
cgtgcgccag	ctcgccgcacg	ctctgtgtt	ccggctgcag	gaagtcaccc	attctgtgeg	720
cattgggtt	ggttccttgc	tggacaaaac	gggtgtgcc	tttggagca	cagtacccctc	780
caaactgcgc	cacccctgc	ccacccggct	ggagcgtgc	cagtcacca	tcaagtttca	840
ccatgtgtc	ccctgtacgg	gggacgcaca	agccttcag	cgggaggtgg	ggcgccagag	900
tgtgtccggc	aatctggact	cgccctgaagg	tggcttcgt	gccattctgc	aggctgcact	960

ctgccaggag cagattggct ggagaaaatgt gtcggggctg ctggtgttca cttcagacga	1020
cacattccat acagctgggg acggaaagt gggcgccatt ttcatgccca gtatgggca	1080
ctgcccacttg gacagcaatg gcctctacag tcgcagcaca gagtttact acccttctgt	1140
gggtcaggta gcccaggccc tctctgcagc aaatatccag cccatcttg ctgtcaccag	1200
tgcgcactg cctgtctacc aggagcttag taaactgatt cctaagtctg cagttggga	1260
gctgagttag gactccagca acgtggata gctcatcatg gatgcttata atagcctgtc	1320
ttccaccgtg acccttgaac actcttcaact ccctctggg gtccacattt cttacgaatc	1380
ccagtgttag ggtctgaga agaggggaggg taaggcttag gatcgaggac agtgcaccca	1440
cgtccgaatc aaccagacgg tgactttctg ggttctctc caagccaccc actgcctccc	1500
agagccccat ctccgtggc tccggggctt tggcttctca gaggagctga ttgtggagtt	1560
gcacacgctg tgtgactgtat attgcagtga caccggcc caggtcccc actgcagtga	1620
tggccaggaa cacctacaat gtgggtatg cagctgtgcc cctggccccc taggtcggt	1680
ctgtgagtgc tctgtggcag agctgtctc cccagacctg gaatctgggt gccgggctcc	1740
caatggcaca gggcccccgt gcaagtggaaa gggtaactgt caatgtggac gtcgcagctg	1800
cagtggacag agctctgggc atctgtgcga gtgtgacgat gccagctgtg agcgacatga	1860
gggcattctc tgcggaggct ttggcgctg ccaatgtgga gtagtcaact gtcatgccaa	1920
ccgcacggc agagcatgcg aatgcagtgg ggacatggac agttgcata gtcggggagg	1980
agggactctgc agtggggatg gacgctgcaa atgcaaccgc tgccagttgtg tggacggcta	2040
ctatggtgcgat ctatgcgacc aatgcccagg ctgcaagaca ccatgcgaga gacacccggg	2100
ctgtgcagag tggggccctt tcaggactgg cccactggcc accaactgtca gtacagcttg	2160
tgcgcatacc aatgtgaccc tggcccttggc ccctatcttg gatgtggct ggtgcaaaaga	2220
ggggaccctg gacaaccgc tggtttttt ctgggtggag gatgacgcca gggcacgggt	2280
cgtgctcaga gtgagacccc aaaaaaaaggg agcagaccac acgcggccca ttgtgctggg	2340
ctgcgttaggg ggcacatgtgg cagtggggct ggggctggc ctggcttacc ggctctcggt	2400
ggaaatctat gaccggccggg aatacagtcg ctttggaaag gagcagcaac aactcaactg	2460
gaagcaggac agtaatccctc tctacaaaag tgccatcagc accaccatca atcctcgctt	2520
tcaagaggca gacagtccca ctctctgaag gagggaggga cacttaccca aggctttct	2580
ccttgggaga cagtggaaac tggagggtga gaggaagggt gggctgtaa gaccttggta	2640
ggggactaat tcaactggcga ggtgcggcca ccaccctact tcatatccatg agtgcacccc	2700
aagaggcgt ctteccatgc ctgcacccctt gcatccatct gggctacccc acccaagtt	2760
acaataaaagt cttaacctcg aaaaaaaaaaaaaaaa	2798

<210> 382
 <211> 1837
 <212> DNA
 <213> Homo sapiens

<400> 382
 gagccgcgca cgggactggg aaggggaccc acccgagggt ccagccacca gccccctcac 60
 taatagcggc caccccgca gggggcgag cagcagcgc gacgcagcgg cgacagctca
 gaggcaggag gccggccac ctgcggcccg gccggagcgg gcagccccag gccccctccc 180
 cgggcacccg cgttcatgca acgcctggtg gcctgggacc cagcatgtct cccctgccc 240
 cccggccgc ctgccttta atccatggaa gtggcaact tctactacga ggccgactgc 300
 ttggctgctg cgtacggcgg caaggcgccccc cccggccgc ccccgccgc cagaccggg 360
 ccgcgcgcgc cggccggcga gctggcgcgc atcggcgcacc acgagcgcgc catcgacttc 420
 agcccgtaacc tggagccgcgt gggcgccgc cagggccccc cggccgcaccc ggccacggac 480
 accttcgagg cggctccgcgc cggccgcgc cccggccccc cttccctccgg gcagcaccac 540
 gaettctctt ccgacacctt ctccgacac tacggggca agaactgcaa gaagccggcc 600
 gagtagcgcgt acgtgagcct ggggcccgcgt ggggcccgcga agggcgcgcgt gcacccggc 660
 tgcttcgcgc ccctgcaccc accggccccc cggccgcgc cggccgcgc gctcaaggcg 720
 gagccggcgt tcgagccgcgc ggactgcaag cggaggagg aggccggggc gccggggcgc 780
 ggcgcaggca tggccggggg ctccccgtac gcgcgtgcgcg cttacctccgg ctaccaggcg 840
 gtgcggageg gcagcagcgg gggccctcc acgtcctctt cgtccagccc gcccggcaca 900
 cggagccccc ctgacgcca ggcgcgcgc accgcctgc acgcgggggc cggccggcgc 960
 ccctcgcagg tcaagagcaa ggccaagaag accgtggaca agcacagcga cgagtacaag 1020
 atccggcgcg agcgcaacaa catgcgcgtg cgcaagagcc ggcacaaggc caagatgcgc 1080
 aacctggaga cgcagcacaa ggtccctggag ctcacggccg agaacagcgc gctgcagaag 1140
 aagggtggagc agctgtcgcg cggactcgc accctgcggaa acttggtaaa gcaatgtgcgc 1200
 gagcccccgcgt cggccctcc cggccactgc tagcggccgc cccggcgcgc tccccctgcgc 1260
 ggccggggcgt gagactccgg ggagccgcgc cggccgcgc ctcgcgcgc ccccgccgg 1320
 cggccggcaaa actttggcac tggggcactt ggcagcgcgg ggagccgcgt ggtatattta 1380
 atattttat atatatatat atctatattt ttgtccaaac caaccgcaca tgcagatggg 1440
 gctcccgccc gtgggtttat ttaaagaaga aacgtctatg tgcacatgtg aatgataaac 1500
 tctctgtttc tccctctgc cctctccagg cggccggggg cggccgggtt tgcagatgtg 1560
 tgcacatgggt taaaacatgg ctgaaacgcgt gtgtacacgg gactgacgcga acccacgtgt 1620

aactgtcagc	cgggcccgtga	gtaatcgctt	aaagatgttc	ctacgggctt	gttgctgttg	1680
atgtttgtt	ttgtttgtt	tttggtctt	ttttgtatt	ataaaaata	atctattct	1740
atagaaaaag	aggcgctctgt	atattttggg	aatctttcc	gttcaagca	ttaagaacac	1800
ttttaataaa	cttttttttg	agaatggta	caaagcc			1837
<210>	383					
<211>	1678					
<212>	DNA					
<213>	Homo sapiens					
<400>	383					
gcataactg	tcatcatctt	ggaaagaaaa	ggctgagaac	gtaaaactga	ggacagagga	60
ggaaagcagg	gtgaccctcg	atgttgcct	agaaaatgga	aaacaaaaca	cagcaaaaca	120
aaaaaacaga	agatctgact	ctgccttag	ccagggaaac	agtttgggg	agtaaaaagt	180
attagggaaa	agagtggca	ttttgcctgg	aaaaaaagtt	tctagagcca	tctgggcttt	240
ccggAACCT	ggaccagact	ctggcccagt	aggatgtccc	cgtgtcctcc	ccagcagagc	300
aggaacaggg	tgatacagct	gtccacttca	gagcttaggag	agatggaact	gacttggcag	360
gagatcatgt	ccatcacgca	gctgcagggt	ctgaatgctc	caagtgagcc	atcattttag	420
ccccaaGCC	cagctccata	ccttggacct	ccaccaccca	caacttactg	ccccgtctca	480
atccACCCAG	attctggctt	cccaacttct	ccaccacctt	atgagctccc	agcatccaca	540
tcccatagtcc	cagatcccc	atactcttat	ggcaacatgg	ccataccagt	ctccaagcca	600
ctgagccct	caggectct	cagttagccg	ctccaagacc	ccttagccct	cctggacatt	660
gggctggccag	cagggccacc	taagccccaa	gaagaccccg	aatccgactc	aggattatcc	720
ctcaactata	gcgatgtca	atctctttag	ctggagggg	cagaggctgg	tcggcggcgc	780
agcgaatatg	tagagatgt	cccagtggag	tacccctact	cactcatgcc	caactccttg	840
gcccactcca	actatacctt	gccagctgt	gagacccct	tggccttaga	gccctcctca	900
ggccctgtgc	gggctaaagcc	cactgcacgg	ggggaggcag	ggagtctgg	tgaacgtcgg	960
gccttggcca	tgaagattcc	tttccctacg	gacaaggattg	tcaacttgc	ggtagatgac	1020
ttaatgagc	tattggcaag	gtacccgctg	acagagagcc	agctagcgt	agtccgggac	1080
atccgacgc	ggggcaaaaa	caagggtggca	gcccagaact	gccgcaagag	gaagctggaa	1140
accattgtgc	agctggagcg	ggagctggag	cggctgacca	atgaacggga	ggggcttctc	1200
agggcccccg	gggagggcaga	ceggaccctg	gaggtcatgc	gccaacagct	gacagagctg	1260
taccgtaca	tttccctacg	ccttcggat	gaatcaggca	acagctactc	tcctgaagag	1320
taCGCCTGC	aacaggctgc	cgatggacc	atcttcttg	tgccccgggg	gaccaagatg	1380

gaggcccacag	acttagactgg	cccaaggggg	tggaaactgct	gatggggattt	ccttcattcc	1440
cttctgataa	aggtactccc	caacccttag	tcccagaagg	agctgagttc	tctagaccag	1500
aaggaggatga	caatggcaac	aagtgtttgg	aagttccaag	gtgtgttcaa	agaggcttgc	1560
cttgaggggag	ggcttggaaatc	tgtcttccct	gactcggtctc	ctcagggtctt	tagcctccac	1620
cttgcataag	ctttggtcta	taaaagtgcgc	tacagaaaaa	aaaaaaaaa	aaaaaaaaa	1678

<210> 384
<211> 2106
<212> DNA
<213> Homo sapiens

<400> 384	agtttccctt	ccgctcacct	ccgcctgagc	agtggagaag	gccccactct	ggtggggctg	60
	ctccaggcat	gcagatccca	caggccccc	ggccagtcgt	ctggggcggtg	ctacaacttgg	120
	gtctggggcc	aggatggttc	ttagactccc	cagacagggc	ctggaaacccc	cccaccttct	180
	tcccaagccct	gctcggtgt	accgaagggg	acaacgcccac	cttcacactgc	agcttctcca	240
	acacatcgga	gagcttcgtg	ctaaactggt	accgcatacg	ccccagcaac	cagacggaca	300
	agctggccgc	cttccccgag	gaccgcagcc	agccccggca	ggactgcccgc	ttccgtgtca	360
	cacaactgcc	caacgggcgt	gacttccaca	tgagctgtgt	caggggcccg	cgcaatgaca	420
	ggggcaccta	cctctgtggg	gcatctccc	tggccccc	ggcgacatc	aaagagagcc	480
	tgccggcaga	gctcagggtg	acagagagaa	gggcagaagt	gccccacagcc	caccccgagcc	540
	cctcacccag	gccagccggc	cagttccaaa	ccctgggtgt	tggtgtcg	ggcgccctgc	600
	tgggcagcc	ggtgctgtca	gtctgggtcc	tggccgtcat	ctgctcccg	ggcgacagag	660
	ggacaatagg	agccaggcgc	accggccagc	ccctgaagga	ggaccctca	gccgtgcctg	720
	tgttctctgt	ggactatggg	gagctggatt	tccagtgccg	agagaagacc	ccggagccccc	780
	ccgtgcctg	tgtccctgag	cagacggagt	atgcacccat	tgtcttccct	agcggaatgg	840
	gcacccatc	ccccggccgc	aggggctcag	ccgacggccc	tggagtgc	cagccactga	900
	ggcctgagga	tggacactgc	tcttggcccc	tctgaccggc	ttccttggcc	accagtgttc	960
	tgcagaccct	ccaccatgag	cccggttcag	cgccatccct	caggagaagc	aggcagggtg	1020
	caggccattg	caggccgtcc	aggggctcag	ctgcctgggg	gacccgggg	ctccagccctg	1080
	cacctgcacc	aggcacagcc	ccaccacagg	actcatgtct	caatgcccac	agtgacccca	1140
	ggcagcagg	gtcacccgtcc	cctacaggg	ggccagatg	cagtcaactgc	ttcagggtct	1200
	gccagcacag	agctgcctgc	gtccagctcc	ctgaatctct	gtgtgtgt	ctgctgtgc	1260
	tgctgtgtcc	tgccggcccg	ggctgaaggc	gccgtggccc	tgcctgacgc	ccggagccct	1320

cctgcctgaa	cttggggct	ggttggagat	ggccttggag	cagccaagggt	gccccctggca	1380
gtggcatccc	gaaacgcctt	ggacgcaggg	cccaagactg	ggcacaggag	tgggagggtac	1440
atggggctgg	ggactcccca	ggagttatct	gctccctgc	ggccttagaga	agtttcaggg	1500
aaggtcgaa	gagctcttgg	ctgtggtggg	cagggcagga	aacccttccc	acctttacac	1560
atgcccagggc	agcacctcg	gcccttgtg	gggcaggaa	gctgaggcag	taagcgggca	1620
ggcagagctg	ggggccttcc	aggccagcca	gcactctggc	ctccctggc	cgcattccac	1680
cccaaaaaat	cacaccactc	gggagaggg	catcctacgg	tcccaagggtc	aggagggcag	1740
ggctggggtt	gactcaggcc	cctcccaget	gtggccacct	gggtgttggg	agggcagaag	1800
tgcaggcacc	tagggccccc	catgtggcca	ccctggggc	tcccttgga	accatttct	1860
gaaaatttt	aaagggggtt	ggcggttcc	caccaggcc	tgggtggaa	ggtacaggcg	1920
ttccccccggg	gcctagtacc	cccgctgtgc	ctatccactc	ctcacatcca	cacactgcac	1980
ccccactctt	ggggcaggcc	caccagcatc	caggcggcca	gcaggcacct	gagttggctgg	2040
gacaaggat	cccccttccc	tgtggttcta	ttatattata	attataatta	aatatgagag	2100
catgct						2106

<210> 385
<211> 439
<212> DNA
<213> Homo sapiens

<400> 385	ccgcagcatg	agctccgcag	ccgggttctg	cgcctcacgc	cccggttgc	tgttcctggg	60
gttgtgtctc	ctggccactt	ttggtgcctt	cgccagcgct	gaagctgaag	aagatgggg	120	
cctgcagtgc	ctgtgtgtga	agaccacactc	ccaggtccgt	cccaggcaca	tcaccagct	180	
ggaggtgtatc	aaggccggac	cccaactgccc	cactgccccaa	ctgatagcca	cgctgaagaa	240	
tggaaaggaaa	atttgttgg	acctgcaagc	cccgctgtac	aagaaaataa	ttaagaaaact	300	
tttggagagt	tagctacttag	ctgcctacgt	gtgtgcattt	gctatatagc	atacttcttt	360	
tttccagttt	caatctaact	gtgaaagaaa	cttctgtat	ttgtgttatac	cttatgat	420	
taataaaaca	aaataaaatc	439	

<210> 386
<211> 2705
<212> DNA
<213> Homo sapiens

<400> 386	tgctcgctcc	agggcgcaac	catgtcgcca	tttcttcgga	ttggcttgc	caactttgac	60
-----------	------------	------------	------------	------------	-----------	------------	----

tgccgggtcct	gccagtcttg	tcagggcgag	gctgttaacc	cttactgtgc	tgtgtcgtc	120
aaagagtatg	tcgaatcaga	gaacggcgag	atgtatatcc	agaaaaagcc	taccatgtac	180
ccaccctggg	acagcacattt	tcatgtccat	atcaacaagg	gaagagtcat	gcagatcatt	240
gtgaaaggca	aaaacgtgga	cctcatctct	gaaaccacccg	tggagctcta	ctcgctggct	300
gagaggtgca	ggaagaacaa	cgggaaagaca	gaaatatgtt	tagagctgaa	acctcaaggc	360
cgaatgtcaa	tgaatgcaag	atactttctg	gaaatgagtg	acacaaggaa	catgaatgaa	420
tttgagacgg	aaggcttctt	tgctttgcat	cagcgccggg	gtgcccataa	gcaggcaag	480
gtccaccacg	tcaagtgcga	cgagttcaact	gccaccttct	tcccacagcc	cacattttgc	540
tctgtctgc	acgagtttgt	ctggggcctg	aacaaacagg	gctaccagtg	ccgacaatgc	600
aatgcagcaa	ttcacaagaa	gtgttattgt	aaagttatag	caaagtgcac	aggatcagct	660
atcaatagcc	gagaaaccat	gttccacaag	gagagattca	aaattgacat	gccacacaga	720
tttaaagtct	acaattacaa	gagcccgacc	ttctgtgaac	actgtggac	cctgtgtgg	780
ggactggcac	ggcaaggact	caagtgtat	gcatgtggca	tgaatgtgca	tcatagatgc	840
cagacaaagg	tggccaaacct	ttgtggcata	aaccagaagc	taatggctga	agcgctggcc	900
atgattgaga	gcactcaaca	ggctcgctgc	ttaagagata	ctgaacacat	cttcagagaa	960
ggtccgggtt	aaattggct	cccatgtctc	atcaaaaatg	aagcaaggcc	gccatgttta	1020
ccgacacccg	aaaaaagaga	gcctcaggc	atttcctggg	agtctccgtt	ggatgagggt	1080
gataaaaatgt	gccccatctcc	agaacctgaa	ctgaacaaag	aaagaccatc	tctgcagatt	1140
aaactaaaaa	ttgaggattt	tatcttgac	aaaatgttgg	ggaaaggaag	ttttggcaag	1200
gtcttcctgg	cagaattcaa	aaaaaccaat	caattttcg	caataaaggc	cttaaagaaaa	1260
gatgtggct	tcatgtggca	tgatgtttag	tgcacatgg	tagagaagag	agttcttc	1320
ttggccctgg	agcatccgtt	tctgaecac	atgtttgt	cattccagac	caaggaaaac	1380
ctcttttttg	tcatgtggta	cctcaacgga	ggggactta	tgttaccacat	ccaaagctgc	1440
cacaagttc	acctttccag	agcgacgttt	tatgtcgct	aaatcattct	tggctgtcag	1500
ttcccttcatt	ccaaaggaaat	agtctacagg	gacctgaagc	tagataacat	cctgttagac	1560
aaagatggac	atatacaat	cgcgatttt	ggaatgtgca	aggagaacat	gtttaggagat	1620
gccaagacga	ataccctctg	tgggacacct	gactacatcg	ccccagagat	cttgctgggt	1680
cagaaataca	accactctgt	ggactggtgg	tccttcgggg	ttcttcctta	tgaaatgtct	1740
atgggtcagt	cgccttcacca	cgggcaggat	gaggaggagc	tcttcactc	catccgcata	1800
gacaatccct	tttacccacg	gtggctggag	aaggaagcaa	aggaccttct	ggtgaagctc	1860
ttcgtgcgag	aacctgagaa	gaggctgggc	gtgagggag	acatccgcca	gcaccctttg	1920

tttcgggaga tcaactggga ggaacttgaa cggaggaga ttgacccacc gttccggccg	1980
aaagtgaaat caccattga ctgcagcaat ttgcacaaag aattcttaaa cgagaagccc	2040
cggctgtcat ttgccgacag agcactgatc aacagcatgg accagaatat gttcaggAAC	2100
tttcttca tgaaccccg gatggagcgg ctgatatecct gaatcttgcc cctccagaga	2160
cagggaaagaa tttgccttct ccctggaaac tggttcaaga gacactgctt gggttccctt	2220
ttcaacttgg aaaaagaaaag aaacactcaa caataaagac tgagacccgt tcgccccat	2280
gtgactttat ctgttagcaga aaccaagtct acttcaactaa tgacgatgcc gtgtgtctcg	2340
tctcctgaca tgtctcacag acgctcctga agttaggtca ttactaaacca tagttatTTA	2400
cttggaaagat gggtctccgc acttggaaag gtttcaagac ttgatactgc aataaaatttat	2460
ggcttccac ctggcgccca actgtgtatc aacgaaatgc ttgttgaatc aggggcaaac	2520
ggagtagcaga cgtctcaaga ctgaaacggc cccattgcct ggtctagtag cggatctcac	2580
tcagccgcag acaagtaatc actaaccgtt ttattctat cctatctgt gatgtataaa	2640
tgctggggc cagccctgga tagttttta tgggattct ttacaataaa catagcttgt	2700
acttg	2705

<210> 387
<211> 6317
<212> DNA
<213> Homo sapiens

<400> 387	
tagtaagaca ggtgccttca gttcactctc agtaaggggc tgggtgcctg catgagtgt	60
tgctctgtgt cactgtggat tggagttgaa aaagcttgc tggcgtcatt caggagctgg	120
atggcgtggg acatgtgca ccaggactct gagtctgtat ggagtgcacat cgagtgtgt	180
gctctgggtt gtgaagacca gcctctttgc ccagatcttc ctgaacttga tctttctgaa	240
ctagatgtga acgacttggc tacagacgc tttctgggtg gactcaagtg gtgcgtgtac	300
caatcagaaa taatatccaa tcagtacaac aatgagcctt caaacatatt tgagaagata	360
gtgaagaga atgaggcaaa cttgctagca gtcctcacag agacactaga cagtctccct	420
gtggatgaag acggattgcc ctcatttgat ggcgtgcacat atggagacgt gaccactgac	480
aatgaggccta gtccttcctc catgcgtac ggcacccctc cacccaggaa ggcagaagag	540
cggctctcac ttaagaagct cttactggca ccagccaaca ctcagctaa ttataatgaa	600
tgcgatggtc tcagtagccca gaaccatgc aatcacaatc acaggatcg aacaaaccct	660
gcaatttgtt aagactgagaa ttcatggagc aataaaagcg aagatatttg tcaacagcaa	720
aagccacaaa gacgtccctg ctcgagctt ctcaaatatc tgaccacaaa cgatgaccct	780

cctcacacca aaccacacaga gaacagaaaac	840
agcagcagag acaaatgcac ctccaaaaag	
aagtcccaca cacagtcgca gtcacaacac ttacaagcca aaccaacaac	900
tttatcttctt	
cctctgaccc cagagtccacc aaatgacccc aagggttccc catttgagaa caagactatt	960
gaacgcacct taagtgtgga actctctgga actgcagggc taactccacc caccactctt	1020
cctcataaaag ccaaccaaga taaccctttt agggcttctc caaagctgaa gtcctttgc	1080
aagactgtgg tgccaccacc atcaaagaag cccaggtaca gtgagttctc tggcacacaa	1140
ggcaataact ccaccaagaaggccggag caatccgagt tttatgcaca actcagcaag	1200
tcttcagttcc tcaactgggtt acacgaggaa aggaagacca agcggcccg tctgcggctg	1260
tttggtggacc atgactatttgc cagtcattt aattccaaaa cagaaataact cattaatata	1320
tcacaggagc tccaagactc tagacaacta gaaaataaaatgatcttc tgattggcag	1380
gggcagattt gttcttccac agatttcagac cagtgctacc tgagagagac tttggaggca	1440
agcaagcagg tctctcccttgc cagcacaaga aaacagctcc aagaccaggaa aatccgagcc	1500
gagctgaaca agcacttcgg tcatcccagt caagctgttt ttgacgacga agcagacaag	1560
accggtaaac tgagggacag tgatccatg aatgaacaat tctccaaact acctatgttt	1620
ataaatttcg gacttagccat ggatggccttgc tttgtatgaca gcgaagatga aagtataaa	1680
ctgagctacc ctggatgg cacgcaatcc tatttcattgt tcaatgtgtc tccttcttgc	1740
tcttctttta actctccatg tagattctgc tggcaccac ccaaatcctt attttctcaa	1800
agacccaaaa ggatggccttgc tcgttcaagg tcctttctc gacacagggtc gtgtccccga	1860
tcacccatatt ccaggtaag atcaaggctc ccaggcagta gatcccttc aagatcctgc	1920
tattactatg agtcaagcca ctacagacac cgcacgccacc gaaattctcc ttgtatgt	1980
agatcacgtt caagatgcgc ctacagccgt cggcccggtt atgacagctca cgaggataat	2040
cagcacgaga ggctgaagag ggaagaatatatgcagagatgttgcg agagtcttag	2100
aggccaagc aaagggagag gcagaggcag aaggcaatttgcg aagagcgcgg tttgtatgtt	2160
gtcggtaaaa tcagacctga cacaacacgg acagaactga gggaccgttt tttgtatgtt	2220
ggtaatttgcg aggactgtcacttgcg agttaatctgc cgggtatgttgcg gagacagctca tggtttcatt	2280
acccatccgtt atacccatgttgc tgcctttgttgc tttgtatgttgcg aatggataac tttgtatgtt	2340
tcaaaacaaa ctgacttttgc gctgtactttt tttgtatgttgc tttgtatgttgcg aatggataac	2400
tatgcagacc tagattccaaatccatgttgc tttgtatgttgc tttgtatgttgcg aatggataac	2460
gactctctgg atttgtatgttgc tttgtatgttgc tttgtatgttgc gatggatgttgc tttgtatgttgc	2520
gttcccttgc tgaggatgttgc agagggatgttgc cgaatccatgttgc tttgtatgttgc gatggatgttgc	2580

ctaaagacta ttgcaagtca tacttagaa ttttcctac ttacactct ctgtacaaaa	2640
acaaaacaaa acaaacaaca tacaacaaga acaaacaaca caataacaac aatggttac	2700
atgaacacag ctgctgaaga ggcaagagac agaatgatat ccagtaagca catgtttatt	2760
catgggtgtc agctttgctt ttcctggagt ctcttggta tggagtgtgc gtgtgtgcat	2820
gtatgtgtgt gtgtatgtat gtgtgtggtg tgtgtgttg gtttagggga agtatgtgtg	2880
ggtacatgtg aggactgggg gcacctgacc agaatgcgc aaggcaaac atttcaaatg	2940
gcagcagttc catgaagaca cgcttaaaac ctagaacttc aaaatgttcg tattctattc	3000
aaaaggaaat atatatatat atatatatat atatatataat atatataaaat taaaaggaa	3060
agaaaaactaa caaccaacca accaacaac caaccacaaa ccaccctaaa atgacagccg	3120
ctgatgtctg ggcacatcgcc tttgtactct gttttttaa gaaagtgcag aatcaacttg	3180
aagcaagctt tctctctataa cgtatgtatt atatgacaat cctgaagaaa ccacaggttc	3240
catagacta atatcctgtc tctctctctc tctctctctc tctctttttt tttttttttt	3300
ccttttgcca tggaatctgg gtggagagg atactgcggg caccagaatg ctaaagttc	3360
ctaacatttt gaagttctg tagttcatcc ttaatcctga cacccatgt aatgtccaaa	3420
atgttgatct tccactgcaa atttcaaaag ccttgtcaat ggtcaagcgt gcagctgtt	3480
cagcgttct ttctgaggag cggacaccgg gttacattac taatgagagt tggtagaac	3540
tctctgagat gtgttcagat agtgtatgg ctacattctc tgatgttagtt aagtatttac	3600
agatgttaaa tggagttttt ttatTTTatg tatatactat acaacaatgt tttttttgt	3660
taacatgtatg cactgttaat gcageccttc tttcaaaact gctaaatTTt tcttaatcaa	3720
gaatattcaa atgtatTTTt gaggtgaaac aattattgtt cactaacata ttttagaagct	3780
gaacttactg ctttatataa tttgattgtt aaaacaaaaa gacagtgtgt gtgtctgtt	3840
agtgcacaa gagcaaaatg atgctttccg cacatccatc ccttaggtga gttcaatct	3900
aagcatcttg tcaagaaata tcctagtccc ctaaaggat taaaccttc tgcgatattt	3960
ttccacatTTt tcttgcgt tgTTTTCTT tgaagttta tacactggat ttgttagggg	4020
aatgaaatTTt tctcatctaa aatTTTTcta gaagatatca tgatTTTatg taaagtctct	4080
caatgggtaa ccattaagaa atgtttttat ttctctatc aacagtagtt ttgaaacttag	4140
aagtcaaaaa tctttttaaa atgctgtttt gtttaattt ttgtgatTTt aatTTgatac	4200
aaaatgctga ggtataattt atagtatgtat ttttacaata attaatgtgt gtctgaagac	4260
tatctttgaa gccagttttt cttcccttg gcagagtatc acgatggat ttatctgtat	4320
tttttacagt tatgcacatcgtt gtataaaatc tgatTTTca ttcctttgtt tactaaagag	4380
acatattttat cagttgcaga tagccttattt attataaattt atgagatgtat gaaaataata	4440

aggccagtgg aaattttctt ccttaggatgc atgacaattt tcaggttgaa gtgtaaatgc 4500
ttcattttggg aaatttcagct tttgcagaag cagtgtttct acttgcacta gcatggccctc 4560
tgacgtgacc atgggtttgt tcttgcatac attgtttctg ctaaaatttaa taaaacttc 4620
agaaaaaccc ccattttgtat catcaggatt tcatctgagt gtggagttccc tggaatggaa 4680
ttcagtaaca ttggagttgt gtattcaagt ttctaaattt agattcgatt actgtttggc 4740
tgacatgtact ttcttgcatac acatgtatac cctactactc aattgttttt ttctttctc 4800
tcgccccaca cgtatcttgcatac agatggattt cacccccagg ccaatgcgc taattttgtat 4860
agctgcatttcc attttatcacc agcatattgtt gttctgagtg aatccactgtt ttgtctgtc 4920
ggatgtttgc ttgatttttt gggttcttat ttcttaatgtt atagaaagca ataaaaaatac 4980
tatgaaatgtt aagaacttgtt tcacaggttc tgcgttacaa cagtaacaca tctttatcc 5040
gccttaattct ttgtttctg taggttaat gcaggatttt taactgtgtt aacgcacaaac 5100
taaagtttac agtctttttt tctgtatttt ggtatcttc ttgtgttagaa tataataaaa 5160
aagacttatttta agagcaataa attttttta agaaatcgag atttagttaa ttcttattatg 5220
tggtaagga ccacatgtgt tctctatttt gcctttaaat ttttgtgaac caatttttaaa 5280
tacattctcc tttttgcctt gggttgcatac gtaggttgcatac ttgttttttttca 5340
cttatcaaaa gacagcacta cagatcatat attggaggatt aattttatccc ccctaccccc 5400
agcctgacaa atatttttttac catgaagata gttttctca atggacttca aatttgcattt 5460
agaatttagtg gagtttttttgcatac gacactgtgg ttagccccatc aaaaatgttaag 5520
ctgtgttttttctt ctcattttttta tttttttttttt tttggagag aatatttcaa atgaacacgt 5580
gcacccatc atcaactggag gcaaaatttca gcatagatct ttaggtttttt tagaagacccg 5640
tggccatcgtt cttttttttttt tttttttttttt tttttttttttt tttttttttttt tttttttttttt 5700
tgcttttagta atgtggattt tttttttttttt taaaagagat gtagcagaat aatttttttttttca 5760
gtgcaacaaa atcaattttttt tttttttttttt tttttttttttt tttttttttttt tttttttttttt 5820
tcaaaggcgc agagagggaa ctttgcacta ttggggatgtt atgtttttttt tttttttttttt 5880
aaggaaaccc ttcatgttttctt ttagatgtga gttttccatgtt ggtttttttttt tttttttttttt 5940
ttttgttttttgc tttttttttttt tttttttttttt tttttttttttt tttttttttttt tttttttttttt 6000
cttagatgtactt catgtactt atatgtgttca ttcttaatgtt gttttttttttt tttttttttttt 6060
ttcaataatgtt tttttttttttt tttttttttttt tttttttttttt tttttttttttt tttttttttttt 6120
atactgttttttgc tttttttttttt tttttttttttt tttttttttttt tttttttttttt tttttttttttt 6180
qcccttttttttgc cttttttttttt tttttttttttt tttttttttttt tttttttttttt tttttttttttt 6240

ttcctgtat	ttttttaaa	tgtcagtc	acatcagect	cactgagcta	ataaaggaa	6300
acgaatgtt	caaataatc					6317
<210>	388					
<211>	6557					
<212>	DNA					
<213>	Homo sapiens					
<400>	388					
agaggccaag	gagagagcag	agaacacact	ttgccttctc	tttggatttg	agtaatatca	60
accaaattgc	agacatctca	acacttggc	caggcagcct	gctgagcaag	gtacccatc	120
cagcatggca	gccttcttcc	caccacett	gggactcagt	tctgccccag	atgaaattca	180
gcacccacat	attaaatttt	cagaatggaa	atthaagctg	ttccgggtga	gatcccttga	240
aaagacacct	gaagaagctc	aaaaggaaaa	gaaggattcc	tttgagggg	aaccctctct	300
ggagcaatct	ccagcagtc	tggacaaggc	tgttgtcag	aagccagtcc	caactcagcc	360
attgttaaaa	gcccacccct	agtttcaaa	gaaatttcac	gacaacgaga	aagcaagagg	420
caaagcgtac	catcaagcca	accttcgaca	tctctggcg	atctgtggg	attcttttag	480
agctgtatg	cacaacagga	gatatccagt	ccatggctct	gtggatggta	aaacccttagg	540
ccttttacga	aagaaggaaa	agagactac	ttcctggccg	gaccttatt	ccaaggtttt	600
ccggatcgat	gtgaaggcag	atgttgactc	gatccacccc	acttagttct	gccataactg	660
ctggagcata	atgcacagga	agtttagcag	tgccttcatgt	gaggttact	tcccgaggaa	720
cgtgaccatg	gagtggcacc	cccacacacc	atcctgtac	atctgcaaca	ctggccgtcg	780
gggactcaag	aggaagagtc	ttcagccaaa	cttgcagtc	agaaaaaaac	tcaaaactgt	840
gcttgaccaa	gcaagacaag	cccgtcageg	caagagaaga	gctcaggcaa	ggatcagcag	900
caaggatgtc	atgaagaaga	tcgccaactg	cagtaagata	catcttagta	ccaagctcct	960
tgcaagtggac	ttcccgagac	actttgtgaa	atccatctcc	tgccagatct	gtgaacacat	1020
tctggctgac	cctgtggaga	ccaaactgtaa	gcatgtctt	tgccgggtct	gcattctcag	1080
atgcctcaaa	gtcatgggc	gctattgtcc	ctcttgcga	tatccatgt	tccctactga	1140
cctggagagt	ccagtgaagt	cctttctgag	cgtcttgaat	tccctgtatgg	tgaaatgtcc	1200
agcaaaaagag	tgcaatgagg	aggtcagttt	ggaaaaatat	aatcaccaca	tctcaagtca	1260
caaggaatca	aaagagattt	tttgtcaca	taataaaggg	ggccggcccc	gccaacatct	1320
tctgtcgctg	actcggagag	ctcagaagca	ccggctgagg	gagctcaagc	tgcaagtca	1380
agcccttgc	gacaaagaag	aagggtggaga	tgtgaagtcc	gtgtgcatga	ccttgttct	1440
gtggctctg	agggcgagga	atgagcacag	gcaagctgat	gagctggagg	ccatcatgca	1500

gggaaagggc tctggcctgc agccagctgt ttgcttgcc atccgtgtca acaccccttc 1560
 cagctgcagt cagtaccaca agatgtacag gactgtgaaa gccatcacag ggagacagat 1620
 tttcagcct ttgcattgc ttcggaatgc tgagaaggta cttctgcac gctaccacca 1680
 cttttagtgg cagccacctc tgaagaatgt gtcttccacg actgatgttgc gcattattga 1740
 tgggctgtct ggactatcat cctctgtgaa tgattaccca gtggacacca ttgcaaagag 1800
 gttccgctat gattcagctt tgggtgtctgc tttgtatggac atggaagaag acatcttgg 1860
 aggcatgaga tcccaagacc ttgatgatta cctgaatggc cccttcaactg tggtggtgaa 1920
 ggagtcttgt gatggaatgg gagacgttag tgagaagcat gggagtggc ctgttagttcc 1980
 agaaaaaggca gtccgtttt cattcacaat catgaaaatt actattgcc acagctctca 2040
 gaatgtgaaa gtatgtgaa aagccaaacc taactctgaa ctgtgttgca agccattgtg 2100
 ccttatgtct gcagatgagt ctgaccacga gacgctgact gccatctgaa gtcctctcat 2160
 tgctgagagg gaggccatga agagcagtga attaatgtt gagctggag gcattctccg 2220
 gactttcaag ttcatcttca ggggcacccgg ctatgatgaa aaacttgc gggaaagtgg 2280
 aggccctcgag gcttctggct cagttcatat ttgtacttctt tggatgcca cccgtctgg 2340
 agcctctcaa aatcttgc tccactctat aaccagaagc catgctgaga acctggaaacg 2400
 ttatgaggtc tggcggttca acccttacca tgagtctgtg gaagaactgc gggatcggtt 2460
 gaaagggttc tcagctaaac ctttcatgaa gacagtcctt tccatagatg cactccactg 2520
 tgacattggc aatgcagctg agttctacaa gatctccatg cttagatgatg gggaaagtgt 2580
 taagaatccc aatgcttca aagaggaaag gaaaagggtgg caggccacac tggacaagca 2640
 tctccggaaag aagatgaacc tcaaaccat catgaggatg aatggcaact ttgccaggaa 2700
 gctcatgacc aaagagactg tggatgcagt ttgtgagttt attccttccg aggagaggca 2760
 cgaggctctg agggagctga tggatcttta cctgaagatg aaaccagatg ggcgatcatc 2820
 atgcctctgt aaagagtgc cagaatccct ctgcccgtac agttcaatt cacagcggtt 2880
 tgctgagctc ctttctacga agttcaagta taggtatgatg gggaaaatca ccaattatgtt 2940
 tcacaaaacc ctggccccatg ttccctgaaat tattgagagg gatggcttca ttggggcatg 3000
 gggcaagttag gggaaatggat ctggtaacaa actgttttagg cgcttccggaa aatgtatgc 3060
 caggcagttc aatgtctatg agatggaaaga tgtccctgaaa caccactggt tgtacaccc 3120
 caaaatccctc cagaatgttta tgaatgtctca taatgtcattt aaaaacctctg ggtttaccat 3180
 gaacccttcg gcaagcttag gggaccattt aggcatagag gactctctgg aaagccaaga 3240
 ttcaatggaa tttaatgtt ggcacccact tatgagttgg tttttgaaat tgagttcccc 3300
 tctgggttgc attgagggttgc ttcctctacgt cccttactg ctgtgtatgg ggcttcacca 3360

aacatttagtt	tttttgaaaa	ctcttggttt	tgttttttg	gaaatgagtg	ggccactaag	5220
ccacacttc	ccttcatcct	gcttaatcct	tccagcatgt	ctctgcacta	ataaacagct	5280
aaattcacat	aatcatcccta	tttactgaag	catggtcatg	ctggtttata	gatttttac	5340
ccatTTctac	tcttttctc	tattggtggc	actgtaaata	cttccagta	ttaaattatc	5400
cttttctaa	actgtaggaa	ctatTTgaa	tgcatgtgac	taagagcatg	atttatagca	5460
caacCTtcc	aataatccct	taatcagatc	acatTTgtat	aaaccctggg	aacatctggc	5520
tgcaggaaatt	tcaatatgtta	gaaacgctgc	ctatggTTT	ttgcCCTTAC	tgttgagact	5580
gcaatATccT	agaccctagt	tttatactag	agttttatTT	ttagcaatgc	ctattgcaag	5640
tgcaattata	tactccaggg	aaattcacca	cactgaatcg	agcatttGTG	tgtgtatgt	5700
tgaagtata	ctgggacttc	agaagtgcAA	tgtatTTTC	tcctgtgaaa	cctgaatcta	5760
caagTTTCT	gccaaggccac	tcaggTgcAT	tgCAGGGACC	agtgataatg	gctgtatgaaa	5820
attgatgatt	ggTCAGTgag	gtcaaaaaggA	gcCTTGGGAT	taataaaatc	gcactgagaa	5880
gcaagaggag	gagaaaaaga	tgtCTTTTC	ttccaggtga	actggatTT	agTTTGCCT	5940
caagatTTT	tcccacaaga	tacagaagaa	gataaaagatt	tttttggTT	agagtgtggg	6000
tcttgcatta	catcaaacag	agttcaaATT	ccacacagat	aagaggcagg	atataataAGC	6060
gccagTgta	gttgggagga	ataaaccatt	atTTggatgc	aggtggTTT	tgattgcAAA	6120
tatgtgtgt	tcttcagtga	tgtatgaca	gatgtatgt	tctttgtatg	ttaaaagatt	6180
ttaagtaaga	gtagatacat	tgtacCCATT	ttacatTTTC	ttatTTTAAC	tacagtaatc	6240
tacataaata	tacctcagaa	atcattttg	gtgattatTT	tttggTTTGT	agaattgcac	6300
ttcagTTT	tttcttacaa	ataacCTTAC	atTTTgtta	atggCttcca	agagCtttt	6360
ttttttgtA	tttcagagaa	aattcaggtA	ccaggatgcA	atggatttat	ttgattcagg	6420
ggacCTgtat	ttccatgtca	aatgtttca	aataaaatga	aatatgagtt	tcaatacttt	6480
ttatatTTTA	atatttcctt	aatattatgg	ttattgtccg	ccatTTgtt	gtatattgtA	6540
aataaaagTTT	agattgt					6557

<210> 389
<211> 2414
<212> DNA
<213> Homo sapiens

<400> 389						
actctttta	cagtcagccT	tctgcttgcC	acagtcatag	tgggcagtca	gtgaatcttc	60
ccaaagtgtct	gacaattaa	acctggTTA	gcggcaaaga	ttcagagagg	cgtgagcagc	120
ccctctggcc	ttcagacaaa	aatctacgtA	ccatcagaaa	ctatgtctcT	gcagatggta	180

acagtcagta ataacatagc cttatttcg ccaggcttct cactgtatggaa	240
caagttttct tctttggaca aaaaggctgg cccaaaagat cctgccccac tggagtttcc	300
catctggatg taaagcataa ccatgtcaaa ctgaagccta caatttctc taaggattcc	360
tgcctacccctcc ctccttctcg ctaccggcact actgtcacat tcaaaggcag cttggagtct	420
aaaaagcata aatacatcat ccatggggaaaacacca acaatgaggt ttcagataag	480
atttatgtca tgtctattgt ttgcaagaac aacaaaaagg ttactttcg ctgcacagag	540
aaagacttgg taggagatgt tcctgaagcc agatatggtc attccattaa tgtggtgtac	600
agccgagggaa aaagtatggg tgctctctt ggaggacgct catacatgcc ttctaccac	660
agaaccacag aaaaatggaa tagttagtgc gactgcctgc cctgtgttt cctgggtggat	720
tttgaatttg ggtgtgtac atcatacatt ctccagaac ttcaggatgg gctatctttt	780
catgtctcta ttgccaaaaa tgacaccatc tatatttttag gaggacattc acttgccaat	840
aatatccggc ctgccaacct gtacagaata agggttgatc ttcccctggg tagcccgat	900
gtgaatttgc cagtcttgc aggaggaatc tctgtctcca gtgcaatcct gactcaaact	960
aaacaatgtat aatttggat tatgggtgc tatcagcttg aaaatcaaaa aagaatgtatc	1020
tgcaacatca tctctttaga ggacaacaag atagaaattc gtgagatggaa gaccccgat	1080
tggaccccg acattaagca cagcaagata tggtttggaa gcaacacggg aatggaaact	1140
gtttttcttg gcataccagg agacaataaa caagttgttt cagaaggatt ctatttctat	1200
atgttgaat gtgctgaaga tgatactaat gaagagcaga caacattcac aaacagtcaa	1260
acatcaacag aagatccagg ggatccact ccctttaagactctgaaga attttggatc	1320
agtgcagaag caaatagttt tggatggat gatgaatttgc acacccataa tgaagatgtat	1380
gaagaagatg agtctgagac aggctactgg attacatgtc gccctacttg tgatgtggat	1440
atcaacacccctt ggatccatt ctattcaact gagctcaaca aacccggccat gatctactgc	1500
tctcatgggg atgggcactg ggtccatgtc cagtgcattgg atctggcaga acgcacactc	1560
atccatctgt cagcaggaag caacaagttt tactgtcaatc agcatgtggaa gatagcaaga	1620
gctctacaca ctccccaag agtccatccc ttaaaaaaagc ctccatggaa atccctccgt	1680
aaaaaaagttt ctggaaaaat ctgtacttgc gccaagaaat ctttttttag aaggttggat	1740
gatttagttt gcaaaaggctt ttcagattca ggtgtatggaa atttttgaat ctatTTTAA	1800
aatcataaca ttgatTTAA aaatacattt ttgtttttttt aaaaatgcata tggggatc	1860
tagttacatg aatTAAGGGC cagaaaaaaag tggatTTAAT gcaatgtatc aataaagtcat	1920
tctagaccctt atacatTTTAA aaaaatTTTAA acccaatatac tcaatttact aatTTTATCT	1980
tcactgagga ttctgtatct gatTTTTAT tcaacaaacc taaaacaccc agaaggcgtt	2040

ataatcatcg aggtatgttt atatttatta tatgagtctt ggtaacaaat aacctataaa	2100
gtgttatga caaatttagc caataaaagaa attaacaccc aaaagaatta aattgattat	2160
tttgcac acatacaattt ggcagttggc caaaacttaa aagcaagatc tactacatcc	2220
cacatttagt ttctttat accttcaagc aacccttgg attatgccca tgaacaagtt	2280
agtttctcat agctttacag atgttagatat aaatataat atatgtatac atatagatag	2340
ataatgttctt ccactgacac aaaagaagaa ataataatc tacataaaa aaaaaaaaaaa	2400
aaaaaaaaaaa aaaa	2414

<210> 390
<211> 3524
<212> DNA
<213> Homo sapiens

<400> 390 tctccgttcag cccattggc cgctcggtcg cggccccccg accctgtctc gtccgccccgc	60
ccggccggccc gcccggcca tgaacgccaa ggtcggtgc gtgttgtcc tctgtgtgac	120
cgcgcctctgc ctcaagcgacg ggaagccgt cagcctgagc tacagatgcc catgcggatt	180
cttcgaaagc catgttgcca gagccaaacgt caagcatctc aaaattctca acactccaaa	240
ctgtgcctt cagattgtag cccggctgaa gaacaacaac agacaagtgt gcattgaccc	300
gaagctaaag tggattcagg agtacctgga gaaagcttta aacaagagg tcaagatgtg	360
agagggttcag acgcctgagg aacccttaca gttaggagcc agctctgaaa ccagtgttag	420
ggaaggggctt gecacagcc cccctggccag ggcaggggccc caggcattgc caaggggcttt	480
gttttgcaca ctttgcata ttttacccat ttgattatgt agcaaatac atgacattta	540
tttttcattt agtttgatta ttcaagtgtca ctggcgacac gttagcagctt agactaaaggc	600
cattattgtt cttgcctt tagagtgtct ttccacggag ccactcctt gactcaggcc	660
tcctgggttt ttttgcata ctttgcata ttgattatgt agcaaatac atgacattta	720
cccatggtca gcccctgggtt ggagagccac caagaggagc gcctgggggtt gcccaggacca	780
gtcaacccctgg gcaaaaggccata gtgaaggctt ctctctgtgg gatggggatgg tggaggggcca	840
catggggcgc tcacccctt ctccatccac atggggccgg ggtctgcctc ttctggggagg	900
gcagcaggcc taccctgagc tgaggcagca gtgtgaggcc agggcagagt gagaccaggc	960
cctcatcccg agcacccatca catccatccac gttctgtctca tcattctctg tctcatccat	1020
catcatgtgt gtccacact gtctccatgg ccccgcaaaa ggactctcag gaccaaaagct	1080
ttcatgtaaa ctgtgcacca agcaggaaat gaaaatgtct tttgttacct gaaaacactg	1140
tgcacatctg tttttttttt ggaatattgt ccattgtcca atcctatgtt tttgttcaaa	1200

gccagcgccc	tcctctgtga	ccaatgtctt	gatgcattca	ctgtttcccc	tgtgcaggcc	1260
ctgagcgagg	agatgctcct	tggcccttt	gagtgcagtc	ctgatcagag	ccgtggcct	1320
ttggggtgaa	ctacccctgt	tcccccactg	atcacaaaaa	catgggtgg	ccatgggcag	1380
agcccaagg	aattcgggt	gcaccagggt	tgaccccaga	ggattgctgc	cccatcagt	1440
ctccctcaca	tgtcagtacc	ttcaaactag	ggccaagccc	agcactgctt	gaggaaaaca	1500
agcattcaca	acttgtttt	ggttttaaa	accagtc	caaataacc	aatcctggac	1560
atgaagattc	tttcccaatt	cacatcta	ctcatcttct	tcaccat	gcaatgccc	1620
catctcctgc	cttcctcctg	ggccctct	gctctgcgt	tcacc	ttcggggcct	1680
tcccacagga	catttctcta	agagaacaat	gtgctatgt	aagagta	caacctgcct	1740
gacat	tttgg	gttccc	cccactgagg	gcagtcata	gagctgtatt	1800
aaatgttac	ttttgacaaa	ggcaagcact	tgtgggttt	tgttttgg	ttcattcagt	1860
cttacgaata	cttttgcct	ttgattaaag	actccagtt	aaaaaaattt	taatgaagaa	1920
agtgaaaac	aaggaagtca	aagcaaggaa	actatgtaa	atgttaggaag	taggaagtaa	1980
attatagtga	tgttatctt	aattgtact	gttcgt	ttaataatct	gtaggtaat	2040
tagtaacat	tgttaagtat	tttcaatt	ggagcttcat	ggcagaaggc	2100	
aaacccatca	acaaaaattt	tcccttaaac	aaaaattaaa	atcctcaatc	cagctatgtt	2160
atattgaaaa	aatagagcct	gaggatctt	tactagttat	aaagatacag	aactcttca	2220
aaaccccttgc	aaattaacct	ctca	cataac	cagtttca	tggggcagtc	2280
attatccagg	taatccaaga	tat	tctgtcacgt	agaacttgg	tgtacctg	2340
cccaatccat	gaaccaagac	cattgaattc	ttgggtgagg	aaacaacat	gaccctaaat	2400
cttgactaca	gtcaggaaag	gaatcattt	tat	ttctcct	ccatggaga	2460
gagtagaaac	tgcaggaa	attat	tgc	taacaattt	tctactaaca	2520
tcctggagac	tgcccagct	aa	gcaat	atc	atcagctc	2580
aaaatgtct	tgtatccg	atc	tcttttt	gtt	tcgtca	2640
gagcttta	ctaggatcc	ctc	atc	tgc	ctctac	2700
cactcccttgc	ggctccctgt	aa	ccttca	gaggccct	ctgggtgt	2760
cccagaggaa	ggggccagag	gctcg	ttgt	ttggatt	gtctgt	2820
cgtgtatgt	ctgtgtgt	tcc	ccctct	tccagg	act gagatacc	2880
ccagaggggca	ctctgtt	gt	ttgt	gg	cgaggagg	2940
gcagaggggc	tgaatagcag	aa	ggttgcac	ctcccccaac	cttagatgtt	3000

ccattggatc	tcattggacc	cttccatgg	gtgatcgct	gactgggtt	atcacccgtgg	3060		
gctccctgac	tgggagttga	tcgccttcc	caggtgc	accctttcc	agctggatga	3120		
gaattttagt	gctctgatcc	ctctacagag	cttccctgac	tcattctgaa	ggagccccat	3180		
tcctggaaa	tattccctag	aaacttccaa	atcccctaag	cagaccactg	ataaaaccat	3240		
gtagaaaatt	tgttattttg	caacccgc	ggactctcg	tctctgagca	gtgaatgatt	3300		
cagtgttaaa	tgtgtat	actgtat	ttt	gtattgtt	aagtgc	catct	cccagataat	3360
gtgaaaatgg	tccaggagaa	ggccaattcc	tatacgc	gagc	gtgtttaaa	aaataaataaa	3420	
gaaacaactc	tttgagaaac	aacaatttct	actttg	aaagt	cataccaatg	aaaaaatgt	3480	
tatgcactta	taat	ttt	cct	aataa	agttc	tgtactcaa	tgta	3524

<210> 391
<211> 1084
<212> DNA
<213> Homo sapiens

<400> 391	cgaggatgt	cgtggggct	cgccggctgg	gcccgggccc	gtgtgcggct	ctgcctcc	60
tgccctggg	gctgagcacc	gtgacggggc	tccactgtgt	cggggacacc	tacccca	gac	120
acgaccgggt	ctgccacag	tgcaggccag	gcaacggat	ggtgagccgc	tgcagccgct	180	
cccaaaacac	ggtgtgcgt	ccgtgcgggc	cgggcttcta	caacgacgtg	gtcagctcca	240	
agccgtgcaa	gccctgca	cg	tgggtgtacc	tcagaagtgg	gagtgagcgg	aagcagctgt	300
gcacggccac	acaggacaca	gtctgcgc	gcccggccgg	cacccagccc	ctggacagact	360	
acaagcctgg	agttgactgt	gccccctgc	ctccaggc	cttctccca	ggcgacaacc	420	
aggcctgcaa	gccctggacc	aactgcac	tggctggaa	gcacaccctg	cagccggcca	480	
gcaatagctc	ggacgcaatc	tgtgaggaca	gggacccccc	agccacgcag	ccccaggaga	540	
cccaaggccc	cccgccagg	cccatactg	tccagccac	tgaagcctgg	cccagaac	600	
cacagggacc	ctccacccgg	cccg	tggagg	tcccgggg	ccgtgcgg	ttt	660
tgccctggg	cctggtgctg	gggctgt	ggc	ccctgtgc	ccctgtac	720	
tgcctccgg	ggaccagagg	ctggccccc	atgccc	cacaa	gccccctggg	ggaggcagtt	780
tccggacccc	catccaagag	gagcaggccg	aegccca	actc	caccctggc	aagatctgac	840
ctggggccac	caagggtggac	gtctggcc	ggc	aggctgg	agccggagg	gtctgtggg	900
cgagcaggcc	agg	tgcc	ggc	ccctggcc	tgggcaact	ctgcaccgtt	960
ctaggtgc	cc	ggctgc	ct	gtctgt	cc	ctgc	1020
cgccggacc	caataaaaac	cttggc	agac	gggatctcc	gaccggcaaa	aaaaaaaaaa	1080

aaaa

1084

<210> 392
 <211> 3510
 <212> DNA
 <213> Homo sapiens

<400> 392	
tcaatcgctt ttatctctg gccctggac ctttgcttat tttctgattt ataggcttg	60
ttttgtcttt acctccttct ttctgggaa aacttcagtt ttatcgacg ttccccctttt	120
ccatatcttc atcttccctc tacccagatt gtqaagatgg aaagggtcca accccctggaa	180
gagaatgtgg gaaatgcagc caggccaaga ttcgagagga acaagctatt gctgggtggcc	240
tctgttaattc agggactggg gctgtcttg tgcttcacccat acatctgcct gcacttctct	300
gctcttcagg tatcacatcg gtatcctcg attcaaagta tcaaagtaca atttaccgaa	360
tataagaagg agaaaggaaa catcctcaact tccaaaagg aggatgaaat catgaagggtg	420
cagaacaact cagtcatcat caactgtgtat gggttttac tcataccctt gaagggtctac	480
ttctcccagg aagtcaacat tagccttcat taccagaagg atgaggagcc cctcttccaa	540
ctgaagaagg tcaggtctgt caactccttg atggggcct ctctgactta caaagacaaa	600
gtctacttga atgtgaccac tgacaatacc tccctggatg acttccatgt gaatggcgga	660
gaactgatcc ttatccatca aaatcctgtt gaattctgtg tcccttgagg ggctgtatggc	720
aatatctaaa accaggcacc agcatgaaca ccaagctggg ggtggacagg gcatggattt	780
ttcattgcaa gtgaaggagc ctccttcgtc agccacgtgg gatgtgacaa gaagcagatc	840
ctggccctcc cgccccccacc cctcaggat attttaaact tattttat accagttat	900
cttattttatc cttatatttt ctaaattgc tagccgtc accccaagat tgccttgagc	960
ctactaggca cttttgttagt aaagaaaaaa tagatgcctc ttcttcaaga tgcattgttt	1020
ctatgggtca ggcaattgtc ataataaaact tatgtcattt aaaaacgtac ctgactacca	1080
tttgctggaa atttgacatg tttgtggat tatcaaaatg aagaggagca aggagtgaag	1140
gagttgggtt atgaatctgc caaagggtgtt atgaaccaac ccctggaaacg caaagcggcc	1200
tctccaaggat taaaattgtt gcaattttca tattgcctaa attttaaactt tctcattttgg	1260
tgggggttca aaagaagaat cagtttgta aaaatcaggaa cttgaagaga gcccgtctaag	1320
aaataccacg tgctttttt ctttaccatt ttgctttccc agcctccaaa catagttaat	1380
agaaatttcc cttcaagaa ctgtctgggg atgtgtatgtt ttgaaaatc taatcgtgt	1440
cttaagagag attttttttgtt atacaggagc agtggatata cttattgtgtt agggatgtat	1500
. tttactgtaca ggatagcagg gaactggaca ttcaggtaaa agtgcgtt cggatttaa	1560

tagcctgggg	aggaaaacac	attctttgcc	acagacaggc	aaagcaacac	atgctcatcc	1620	
tcctgcctat	gctgagatac	gcactcagct	ccatgtcttg	tacacacaga	aacattgtcg	1680	
gttcaagaa	atgaggtat	cctattatca	aattcaatct	gatgtcaa	atgcactaaga	1740	
agttattgtg	ccttatgaaa	aataatgatc	tctgtctaga	aataccatag	accatatata	1800	
gtctcacatt	gataattgaa	actagaaggg	tctaataatca	gcctatgcca	gggcttcaat	1860	
ggaatagtat	ccccttatgt	ttagttgaaa	tgtccctta	acttgcata	atgtgtttag	1920	
cttatggcgc	tgtggacaat	ctgattttc	atgtcaactt	tccagatgt	ttgttaacttc	1980	
tctgtgcca	acctttata	aacataaatt	tttgagat	gtat	ttttaaa	attgttagcac	2040
atgtttccct	gacattttca	atagaggata	caacatcaca	gaatcttct	ggatgattct	2100	
gtgttatcaa	ggaatttgtac	tgtgtacaa	ttatctctag	aatctccaga	aagggtggagg	2160	
gctgttcgc	cttacactaa	atggtctcag	ttggat	tttt	ttctat	ttcc	2220
tcttaagtac	accttcaact	atattccat	ccctctat	taatctgtta	tgaaggaagg	2280	
taaataaaaa	tgctaaatag	aagaaattgt	aggtaa	aggtaa	atca	agttctgagt	2340
ggctgccaag	gcactcacag	aatcataatc	atggctaaat	atttatggag	ggcctactgt	2400	
ggaccaggca	ctgggctaaa	tacttacatt	tacaagaatc	attctgagac	agatattcaa	2460	
tgatatctgg	cttcactact	cagaagattg	tgtgtgtgtt	tgtgtgtgt	tgtgtgtgt	2520	
tat	tttca	tttgttattg	accatgttct	gcaaaattgc	agttactcag	tgagtgtat	2580
ccgaaaaagt	aaacgtttat	gactatagg	aatat	ttaa	aaatgc	gttcattttt	2640
aagtttggaa	tttttatcta	tatttctac	agatgtgcag	tgcacatgc	ggcctaagta	2700	
tatgtgtgt	gtgtgtttg	tctttgtat	catggcccc	tctcttaggt	gtcactcgc	2760	
tttgggtgc	cctggcctgc	tcttcccatt	ttggcctctg	caaccacaca	gggatatttc	2820	
tgctatgcac	cagcctca	ccac	ttct	tccatcaaa	atatgtgt	gtgtctcagt	2880
ccctgtaa	catgtccttc	acaggggaa	ttaacccttc	gatatacatg	gcagat	tttt	2940
gtggaaaag	aattgaatga	aaagtca	gatcagaatt	ttaaatttga	cttagccact	3000	
aactagccat	gtaaccttgg	gaaagtca	tcccat	tttgcgt	tttcttctg	3060	
ttaaatgaga	ggaatgttaa	atata	ctaa	acat	ttatgttac	agtgttatct	3120
gtgaatgcac	atattaaatg	tctatgttct	tgtgtctatg	agtcaaggag	tgtaa	ccctc	3180
tcctttacta	tgttgaatgt	at	tttttct	ggacaagctt	acat	ttct	3240
tgtgagtcc	tcaagagcag	ttatcaat	tttagttagat	at	tttcttatt	tagagaatgc	3300
ttaaggatt	ccaatcccga	tccaaatcat	aatttgc	taatgtata	act	ggcagg	3360
cctat	ttta	gtcataat	tgtat	ttgt	tttgcgt	ctctcagaga	3420

tatatattat aataatagtt aatgtaatat tgctatttac atggaaacaa ataaaagatc	3480
tcagaattca ctaaaaaaaaaaaaaaaa	3510
<210> 393	
<211> 1158	
<212> DNA	
<213> Homo sapiens	
<400> 393	
ggaattccgt ggccaggatg ctgagcctgc tgctgctggc gctgcccgtc ctggcgagcc	60
gcccctacgc gccccctgcc ccagtccagg ccctcgagca agcgggtatc gtcgggggtc	120
aggaggcccc caggagcaag tggccctggc aggtgagct gagagtccgc gaccgatact	180
ggatgcacctt ctgcgggggc tccctcatecc acccccagtg ggtgctgacc gcgcgcaact	240
gcctgggacc ggacgtcaag gatctggcca ccctcagggt gcaactgcgg gaggcagcacc	300
tctactacca ggaccagctg ctgcccgtca gcaggatcat cgtgcaccca cagttctaca	360
tcatccagac tggagcggat atcgcctgc tggagctgga ggagccgtg aacatctcca	420
gcccgttcca cacggtcatg ctgccccctg cctcgagac cttccccccg gggatggcgt	480
gctgggtcac tggctggggc gatgtggaca atgatgagcc cctccacccg ccattttccc	540
tgaagcaggt gaagggtcccc ataatggaaa accacatttg tgacgaaaaa taccaccttg	600
gcccctacac gggagacgcac gtccgtcatca tccgtacga catgtgtgt gccggaaaca	660
gccagagggc ctccgtcaag ggcgactctg gagggccctt ggtgtcaag gtgaatggca	720
cctggctaca ggccggcgtg gtcagctggg aegagggtcg tgcccaagccc aaccggccctg	780
gcatctacac cctgtcacc tactacttgg actggatcca ccactatgtc cccaaaaagc	840
cgtgagtcag gctgggtgt gccacctggg tcactggagg accaaccctt gctgtccaaa	900
acaccactgc ttccatccca ggtggcact gccccccaca cttccctgc cccgtctgt	960
gtgcccccttc ctgtcctaag cccccctgtc tttctgagc cttttccctt gtcctgagga	1020
cccttccca ttctgagccc cttccctgt cctaagctcg acgcctgcac tggccctcc	1080
ggccctcccc tgcccaaggca gctgggtgt ggcgctaattc ctcctgagtg ctggacctca	1140
ttaaagtca tggaaatc	1158
<210> 394	
<211> 1497	
<212> DNA	
<213> Homo sapiens	
<400> 394	
accgctggcc ccaggaaag ccgagccgc accgagccgg cagagaccca ccgagccgc	60

gcggaggggag cagcgcggg ggcacgagg gcaccatggc ccagacgcc gccttcgaca	120
agcccaaagt agaactgcat gtccacctag acggatccat caagcctgaa accatcttat	180
actatggcag gaggagggg atcgccctcc cagctaacad agcagagggg ctgctgaacg	240
tcattggcat ggacaagccg ctcacccttc cagacttcct ggccaaattt gactactaca	300
tgcctgtat cgccggctgc cgggggctca taaaaggat cgcctatgag ttgttagaga	360
tgaaggccaa agaggccgtg gtgtatgtgg aggtgcggta cagtcggcac ctgctggcca	420
actccaaagt ggagccaatc ccctggAACc aggctgaagg ggacctcacc ccagacgagg	480
ttggggccct agtggcccg ggcctgcagg agggggagcg agacttcgg gtcaaggccc	540
ggtccatctt gtgctgcatg cgccaccagc ccaactggtc ccccaaggtg gtggagctgt	600
gtaagaacta ccagcagcag accgtggtag ccattgacct ggctggagat gagaccatcc	660
caggaagcag cctcttgct ggacatgtcc aggccttacca ggaggctgtg aagagcggca	720
ttcacccgtac tgtccacgcg ggggggtgg gtcggccga agtagaaaa gaggctgtgg	780
acatactcaa gacagagcgg ctgggacacg gtcaccacac cctggaaagac caggccctt	840
ataacaggct gccgcggaa aacatgcaact tcgagatctg cccctggcc agctacctca	900
ctgggcctg gaagccggac acggagcatg cagtcattcg gctaaaaat gaccaggcta	960
actactcgct caacacagat gacccgctca tttcaagtc caccctggac actgattacc	1020
agatgaccaa acgggacatg ggcttactg aagaggagtt taaaaggctg aacatcaatg	1080
cggccaaatc tagtttcctc ccagaagatg aaaagaggga gtttcgtcgc ctgctctata	1140
aaggctatgg gatgccaccc tcaagctctg cagggcagaa cttctgaaga cgccactcct	1200
ccaagcccttc accctgtgga gtcaccccaa ctctgtggg ctgagcaaca ttttacatt	1260
tattccttc aagaagacca tgatctcaat agtcagttac tgatgtctt gAACCCATG	1320
tgtccatattc tgcacacacg tatacctcg catggccgag tcacttctt gattatgtgc	1380
cctggcgggg accagcggcc ttgcacatgg gcatgggtga atctgaaacc ctccttctgt	1440
ggcaacttgt actgaaaatc tggtgctcaa taaagaagcc catggctgtt ggcacatgc	1497

<210> 395
<211> 2085
<212> DNA
<213> Homo sapiens

<400> 395 gcattttttcc ttctgcgtt tgggacagga ccctttctgg aatgggggtc ttatgaccta	60
caatcaaaca agaacatgga cttcccgatgc ctctgttgc ggctgttgc gccttggta	120
gctgcgttgg atttcaacta ccacccggcag gaagggatgg aagcgttttt gaagactgtt	180

gccccaaaact acagttctgt cactcaactt a cacagtattt gggaaatctgt gaaaggtaga	240
aacctgtggg ttcttgttgc gggcggttt ccaaaggaaac acagaattgg gattccagag	300
tccaaatacg tggcaaatat gcatggagat gagactgtt ggcggggact gctgtccat	360
ctgattgact atctcgtaac cagtgtatgc aaagaccctg aaatcacaaa tctgtatcaat	420
agtacccgga tacacatcat gccttccatg aacccagatg gatttgaagc cgtcaaaaag	480
cctgactgtt actacagcat cggaaggaa aattataacc agttagctt gaatcgaaat	540
ttccccgatg ctttgataa taataatgtc tcaaggcagc ctgaaactgt ggcagtcatg	600
aagtggctga aaacagagac gtttgcttc tctgcaaacc tccatgggg tgccctcggt	660
gccagttacc catttgataa tgggttcaaa gcaactgggg cattataactc ccgaagctta	720
acgcctgtatg atgatgttt tcaatatctt gcacataacct atgcttcaag aaatcccaac	780
atgaagaaag gagacgagtg taaaaacaaa atgaacttcc ttaatgggtt tacaatggg	840
tactcttggt atccactcca aggtggaatg caagattaca actacatctg gcccagtg	900
tttggaaatta cgttggagct gtcatgtgt aaatatccctc gtgaggagaa gttccatcc	960
ttttggaaata ataacaaagc ctcattaattt gaatataaa agcaggtgca cctaggtgt	1020
aagggtcaag ttttgatca gaatggaaat ccattaccca atgtaattgt ggaagtccaa	1080
gacagaaaac atatctgccc ctatagaacc aacaaatatg gagagtatta tctccttctc	1140
ttgcctgggt ctttatattat aaatgttaca gtcctggac atgatccaca catcacaaag	1200
gtgattattc cgagaaatc ccagaacttc agtgcttta aaaaggatat tctacttcca	1260
ttccaaggc aattggattc tatcccagta tcaaatccctt catgccaaat gattcctcta	1320
taacggaaatt tgccagacca ctcagctgca acaaagccta gtttggctt attttttagtg	1380
agtctttgc acatattctt caaataaaagt aaaatgtgaa actcaaccca catcaccacc	1440
tggaaatcagg gattgctcac tccaggttac tgcaacccta actactcta gtggacctt	1500
gactggagaa actccacatg cttctgttgc aagagaaatg gatgttcca aattccacaa	1560
taagcaatat gtgggtataa tgaaaagaat gattcgtct tgacgggtaa tggaaagacac	1620
ttacctaaca agtactgctc atttacactc aaattaatct tgaagtagtc ttaaaatgtg	1680
taagaagttt aaacttgaga agcaaaaaat gcctgcaaaaa agaagatcat tttgtataca	1740
gagaaccggg tgaatataag caatgaagat gaacatttat tgatcttcta catacaagac	1800
ttcaccataa ggccaggagc agtgctcacg cttgtatcc ccagcacttt gggaggccaa	1860
ggggggcgga tcaccttgc gtcaggagttt caagaccgcg ctgaccaaca tggtaaaacc	1920
ctgtctctac taaatattag cgggggtgtgg tggcgccac ctgtagtcgc agccttcgg	1980
gaggctgaga caggagaatc gcttgaaacc tagaggcgggaa gtttgcgtg agccgagata	2040

gtgccattgt actccagctt gggcaacaga gtaagactct gtctc 2085

<210> 396
<211> 781
<212> DNA
<213> Homo sapiens

<400> 396
acacagagag aaaggctaaa gttctctgga ggatgtggct gcagagcctg ctgcttgg 60
gcactgtggc ctgcagcatc tctgcacccg cccgctcgcc cagccccagc acgcagccct 120
gggagcatgt gaatgccatc caggaggccc ggctgtctctt gaacctgagt agagacactg 180
ctgctgagat gaatgaaaca gtagaagtca tctcagaaat gtttgacctc caggagccga 240
cctgcctaca gacccgcctg gagctgtaca agcagggcct gcggggcagc ctcaccaagc 300
tcaaggggccc cttgaccatg atggccagcc actacaagca gcactgcctt ccaacccgg 360
aaacttcctg tgcaacccag attatcacct ttgaaagttt caaagagaac ctgaaggact 420
ttctgttgtt catccccctt gactgtggg agccagtcca ggagtgagac cggccagatg 480
aggctggcca agccggggag ctgctctc atgaaacaag agctagaaac tcaggatgg 540
catcttggag ggaccaaggg gtggccaca gccatggtgg gagtgccctg gacctgcct 600
ggccacact gaccctgata caggcatggc agaagaatgg gaatatttt tactgacaga 660
aatcagtaat atttatatat ttatattttt aaaatattttt ttatattttt tatttaaat 720
catatccat atttattcaa gatgtttac cgtaataatt attttaaaa atatgtttct 780
a 781

<210> 397
<211> 1509
<212> DNA
<213> Homo sapiens

<400> 397
aaaacagccc ggagcctgca gcccagccccc acccagaccc atggctggac ctgccaccca 60
gagccccatg aagctgtatgg ccctgcagct gctgtgtgg cacagtgcac tctggacagt 120
gcagggagcc acccccccgg gcccgcaccc cccctgcgcc cagagcttcc tgctcaagt 180
cttagagcaa gtgaggaaga tccagggcga tggcgccagcg ctccaggaga agctgtgtgc 240
cacctacaag ctgtgccacc cccaggaggct ggtgtgtc ggacactctc tgggcattccc 300
ctgggtcccc ctgagcagct gccccagcca gcccgcaccc ctggcagggt gtttggccaa 360
actccatagc ggcctttcc tctaccaggg gtcctgcag gcccggaaag ggatctcccc 420
cgagttgggt cccacccctgg acacactgca gtcggacgtc gcccactttt ccaccaccaat 480

ctggcagcac	atggaagaac	tgggaatggc	ccctgcctg	cagccccacc	agggtgccat	540
gcgggccttc	gcctctgctt	tccagcgccg	ggcaggagggg	gtcctggtt	cctcccatct	600
gcagagcttc	ctggagggtgt	cgtaccgctgt	tctacgcccac	cttgcacagc	cctgagccaa	660
gcctcccca	tcccatgttat	ttatctctat	ttaatattta	tgtctattta	agcctcatat	720
ttaaagacag	ggaagagcag	aacggagccc	caggcctctg	tgtccttccc	tgcatttctg	780
agtttcattc	tcctgcctgt	agcagtgaga	aaaagctct	gtcctcccat	ccccctggact	840
gggaggtaga	tagttaataa	ccaagtattt	attactatga	ctgctccca	gcctggctc	900
tgcaatgggc	actgggatga	gccgctgtga	gcccctggtc	ctgagggtcc	ccacctggga	960
cccttgagag	tatcaggctt	cccacgctggg	agacaagaaa	tccctgttta	atatttaaac	1020
agcagtgttc	cccatctggg	tccttgacc	cctcaactctg	gcctcagccg	actgcacagc	1080
ggccctgc	tccccttggc	tgtgaggccc	ctggacaagc	agaggctggcc	agagctggga	1140
ggcatggccc	tggggtccca	cgaatttgc	ggggaaatctc	gtttttcttc	ttaagacttt	1200
tgggacatgg	tttgactccc	gaacatcacc	gacgtgtctc	ctgttttct	gggtggccctc	1260
ggcacacctg	ccctgc	acgagggtca	ggactgtgac	tctttttagg	gccaggcagg	1320
tgcctggaca	tttgccctgc	tggacgggg	ctggggatgt	gggagggagc	agacaggagg	1380
aatcatgtca	ggcctgtgt	tcaaaggaaag	ctccactgtc	accctccacc	tcttcacccc	1440
ccactca	gtgtccctc	cactgtcaca	ttgtactga	acttcaggat	aataaaagtgt	1500
ttgcctcca						1509

<210> 398
<211> 1631
<212> DNA
<213> Homo sapiens

<400> 398	ggacttctag	ccctgaaact	ttcagccaa	tacatcttt	ccaaaggagt	gaattcaggc	60
	ccttgcata	ctggcagcac	gacgtgacca	tggagaagct	gttgtgttcc	ttggcttga	120
	ccagcctctc	tcatgtttt	ggccagacag	acatgtcgag	gaaggcttt	gtgtttccca	180
	aaagatcgga	tacttctat	gtatcccta	aagcacccgt	aacgaagct	ctcaaagct	240
	tcactgtgt	cetccacttc	tacacggaa	tgtcctcgac	ccggggtaca	gtatttctc	300
	gtatgccacc	aagagacaag	acaatgagat	tcttcatatt	ttggtctaag	gatataggat	360
	acagtttac	agtgggtgg	tctgaaata	tattcgggt	tcctgaaatc	acagtagctc	420
	cagtagacat	ttgtacaagc	tgggagtccg	cetcaggat	cgtggagttc	tgggtatgt	480
	ggaagccac	ggtgaggaag	agtctgaaga	agggatacac	tgtggggca	gaagcaagca	540

tcatcttggg	gcaggaggcag	gattccttcg	gtggaaacctt	tgaaggaagc	cagtccttg	600	
tggagacat	tggaaatgt	aacatgtggg	actttgtgt	gtcaccagat	gagattaaca	660	
ccatctatct	tggcgcccc	ttcagtccta	atgtcctgaa	ctggcgccc	ctgaagtatg	720	
aagtgcagg	cgaagtgttc	accaaacc	agctgtggcc	ctgaggccc	gctgtgggtc	780	
ctgaaggta	ctcccggtt	tttacaccgc	atgggccc	cgtctgtc	tctgttacct	840	
cccgctttt	tacactgcat	ggttccc	actctgtc	tggccctt	ttccctata	900	
tgcattgcag	gcctgtcca	ccctcctc	cgcc	tggaggtaaa	gtgtctggc	960	
tgggagctcg	ttaactatgc	tgggaaacgg	tccaaagaa	tcagaattt	aggtgtttt	1020	
tttcat	tttcaagt	tggacagatc	ttggagataa	tttcttac	cacatagat	1080	
agaaaactaa	cacccagaaa	ggagaaatga	tgttataaaa	aactcataag	gcaagagctg	1140	
agaaggaagc	gctgtatctc	tat	ttttaaatc	cccacccatg	accccccagaa	1200	
ttgcccacat	tcacaggct	cttca	gatc	agaatcagga	caactggccag	1260	
tgggtccaga	gtgtcatca	tcatgtcata	gaactgctgg	gcc	cagggtct	1320	
gaagccc	agatccacgc	atcc	tcaaa	gcacactgga	aaggcatt	1380	
gaattgcccc	agcagagcag	atctgctttt	tttcc	agcag	aaaatgaagc	1440	
aatatgttgt	tactgccaag	aactt	aaatg	actgg	tttt	1500	
taat	tttatg	gctt	cttgg	gaaact	cc	ttc	1560
gaattt	tttca	ccccc	cat	tttcc	atacc	caggc	1620
cagg	tgccgt	g					1631

<210> 399
<211> 3475
<212> DNA
<213> Homo sapiens

<400> 399	cgaggcggca	tccgagggt	gggcgggcgc	cctggggac	cccggtctcc	ggaggccatg	60
ccggcggttgg	cgcgcacgc	gggcaccgt	ccgctgtc	ttgtttt	tgc	atgata	120
tttggacta	ttacaatca	agatctgc	gtgatca	agt	gtgtt	taat	180
aacaatgatt	catcagtggg	gaagtcatca	tcatatccc	tgg	tatcaga	atcccggaa	240
gac	ctcggtt	gtgcgtt	gag	acccc	agc	tcagg	300
gaagtggat	tatctgttc	catcacactg	caagtgtgg	tcgat	cccc	aggaa	360
tcctgtctct	gggtttttaa	gcacagtc	ctgaattgc	agcc	acattt	tgat	420
aaac	agaggag	ttgtttccat	ggtcattt	aaaat	gacag	aaaccaagc	480

ctactttta ttcagagtga agctaccaat tacacaatat tgtttacagt gagtataaga	540
aataccctgc ttacacatt aagaagacct tacttttagaa aaatggaaaa ccaggacgccc	600
ctggctcgat tatctgagag cggttccagag ccgatcgtgg aatgggtgt ttgcgattca	660
cagggggaaa gctgtaaaga agaaagtcca gctgttgta aaaaggagga aaaagtgttt	720
catgaattat ttgggacgga cataagggtgc tgtgcagaa atgaaactggg cagggatgc	780
accaggctgt tcacaataga tctaaatcaa actcctcaga ccacattgcc acaattattt	840
cttaaagttag gggAACCCttt atggataagg tgcaaagctg ttcatgtgaa ccatggattc	900
gggctcacct gggattaga aaacaagca ctgcaggagg gcaactactt tgagatgagt	960
acctattcaa caaacagaac tatgatacgg attctgtttt ctgttgcatac atcagtggca	1020
agaaaacgaca ccggatacta cacttgttcc tcttcaaagc atcccagtca atcagctttt	1080
gttaccatcg taggaaaggg atttataat gctaccaatt caagtgaaga ttatgaaatt	1140
gaccaatatg aagagttttg ttttctgtc aggtttaag ctttccccaca aatcagatgt	1200
acgtggaccc tctctcgaaa atcatttctt tgtgagcaaa agggtcttga taacggatac	1260
agcatatcca agttttgcaa tcataaggcac cagccaggag aatataattt ccatgcagaa	1320
aatgatgtatg cccattttac caaaatgttc acgctgaata taagaaggaa acctcaagtgc	1380
ctcgcagaag catcgcaag tcagggctcc tgtttctcggtt atggatacc attaccatct	1440
tggacctgga agaagtgttc agacaagtct cccaaactgc cagaagagat cacagaagga	1500
gtctggata gaaaggctaa cagaaaatgtg tttggacagt gggtgtcgag cagtactcta	1560
aacatgagtg aagccataaa agggttccctg gtcaagtgtt gtgcatacaa ttcccttgcc	1620
acatcttgc agacgatcct tttaaactct ccaggccccct tccctttcat ccaagacaac	1680
atctcattct atgcaacaat tgggtttgt ctccctttca ttgtcggtt aaccctgtcta	1740
atttgcaca agtacaaaaa gcaattttagg tatgaaagec agctacagat ggtacagggt	1800
accggctctt cagataatga gtacttctac gttgatttca gagaatatga atatgtatctc	1860
aaatgggagt ttccaaagaga aaatttttagg tttggaaagg tactaggatc aggtgtttttt	1920
ggaaaatgtg tgaacgcac agcttatggaa attagcaaaa caggagtctc aatccaggtt	1980
gccgtcaaaa tgctgaaaga aaaagcagac agctctgaaa gagaggcaact catgtcgaa	2040
ctcaagatga tgacccagct gggaaaggccac gagaatattt tgaacctgtt gggggcgtgc	2100
acactgtcag gaccaattta ctgttattttt gaatactgtt gctatgggtt tcttctcaac	2160
tatctaagaa gtaaaagaga aaaatttcac aggacttggaa cagagatttt caaggaaacac	2220
aatttcagtt ttacccac ttccaaatca catccaaattt ccagcatgc tggttcaaga	2280
gaagttcaga tacacccgga ctcgatcaa atctcaggcc ttcatggaa ttcatttcac	2340

tctgaagatg aaattgaata	tgaaaaccaa	aaaaggctgg	aagaagagga	ggacttgaat	2400
gtgc ttacat ttgaagatct	tcttgcttt	gcatatcaag	ttgccaaagg	aatggaaattt	2460
ctgaaat tta agtcgtgtgt	tcacagagac	ctggccgcca	ggaacgtct	tgtcacccac	2520
gggaaatgg tgaagatatg	tgactttgga	ttggctcgag	atatcatgag	tgattccaaac	2580
tatgttgtca gggcaatgc	cgtctgcct	gtaaaatgg	tggccccga	aagcctgttt	2640
gaaggcatct acaccattaa	gagtgtatgc	tggtcatatg	gaatattact	gtggaaatc	2700
ttctca ctttgcgtgtgt	ttaccctggc	attccgggtt	atgctaactt	ctacaactg	2760
atccaaatg gat taaaat	ggatcagcca	tttatgcta	cagaagaaat	atacattata	2820
atgcaatcc tctgggcttt	tgactcaagg	aaacggccat	cttccctaa	tttgacttcg	2880
tttttaggt gtcagctggc	agatcagaa	gaagcgtgt	atcagaatgt	ggatggccgt	2940
gtttcggaaat gtcctcacac	ctacaaaac	aggcgacctt	tcagcagaga	gatggatttgc	3000
gggc tctctc	ctccgcaggc	tcaggcgtaa	gattcgtaga	ggaacaattt	3060
acttcatccc tccacccatc	cctaacaggc	tgttagattac	caaacaaga	ttaatttcat	3120
cactaaaga aaatcttata	tcaactgctg	cttcaccaga	ctttctcta	gaagccgtct	3180
gcgttactc ttgtttcaa	agggactttt	gtaaaatcaa	atcatctgt	cacaaggcag	3240
gaggagctga taatgaacctt	tattggagca	ttgatctgca	tccaaggct	tctcaggccg	3300
gctttagtga attgtgtacc	tgaagtacag	tatattcttg	taaatacata	aaacaaaagc	3360
attttgc taa ggagaagcta	atatgat tttt	ttaagtctat	gtttaaaat	aatatgtaaa	3420
ttttcagct atttagtgtat	atattttatg	ggtggaaata	aaatttctac	tacag	3475

<210> 400
<211> 2365
<212> DNA
<213> Homo sapiens

<400> 400	tccca gccctt	cccatcccccc	caccgaaagc	aaatcattca	acgacccccc	accctccgac	60
ggcaggagcc	ccccgacctc	ccaggcggac	cgcccttccc	tcccegcgeg	ggttccgggc	120	
ccggcgagag	ggcgacacga	cagccgaggc	catggaggt	acggcggacc	agccgcgcgt	180	
ggtgagccac	caccaccccg	ccgtgctcaa	cggcagcac	ccggacacgc	accacccggg	240	
cctcagccac	tcctacatgg	acgcggcgc	gtacccgct	ccggaggagg	tggatgtgt	300	
tttaacatc	gacggtaag	gcaaccacgt	cccgccctac	tacggaaact	cggtcagggc	360	
cacggtgcag	aggta ccctc	cgaccacca	cgggagccag	gtgtccgc	cgccctgtct	420	
tcatggatcc	ctaccctggc	tggacggcgg	caaagccctg	ggcagccacc	acaccgcctc	480	

tcgtttgttt	gtttcaatat	tttcccttc	tctcaat	ttt	cggtaata	aactagatta	2340
cattcagttg	gcaaaaaaaaa	aaaaaa					2365
<210> 401							
<211> 1658							
<212> DNA							
<213> Homo sapiens							
<400> 401							
ctctctctct	atctctctca	gaatgacaat	tctaggta	actttggca	tggtttttc		60
ttaacttcaa	gtcggttctg	gagaaagtgg	ctatgctaa	aatggagact	tggagatgc		120
agaactggat	gactactcat	totcatgcta	tagccagttg	gaagtgaatg	gatcgacga		180
ttca	tggtgttttg	aggaccaga	tgtcaacacc	accatctgg	aatttgaat		240
atgtggggcc	ctcgtggagg	taaagtgcct	gaatttcaagg	aaactacaag	agatataat		300
catcgagaca	aagaaattct	tactgattgg	aaagagcaat	atatgtgtga	agggtggaga		360
aaagagtcta	acctgc	aaaaaa	aaatagacct	aaccactata	gtttaaacctg		420
tgacctgagt	gtcatctatc	gggaaggagc	caatgacttt	gtggtgacat	ttaatacata		480
acacttgcaa	aagaagtatg	taaaagtttt	aatgcata	gtagcttacc	gccaggaaaa		540
ggatgaaaac	aaatggacgc	atgtgaattt	atccagcaca	aagctgacac	tcctgcagag		600
aaagctccaa	ccggcagcaa	tgtatgagat	taaagttcg	tccatccctg	atca		660
taaaggcttc	tggagtgaat	ggagtccaag	ttattacttc	agaactccag	agatcaataa		720
tagctcagg	gagatggatc	ctatctact	aaccatcagc	attttgagtt	ttttctctgt		780
cgctctgtt	gtcatcttgg	cctgtgtt	atggaaaaaa	aggattaagc	ctatcgat		840
gcccagtctc	cccgatcata	agaagactct	ggaacatctt	tgtaa	aaac		900
ttaaatgt	agtttcaatc	ctgaaagt	ttt	cctggactgc	cagattcata		960
cattcaagct	agagatgaag	ttgaagg	ttt	tctgcaat	acgtttcc		1020
agaatctgag	aagcagag	ttgggggg	tgtgcag	cccaactgc	catctgagga		1080
tgttagtc	actccagaa	gttttggaa	agattcatcc	ctcacatgc	tggctggaa		1140
tgtcagtgc	tgtgac	cccc	ctatctctc	cttcc	tccctagact		1200
tggcaagaat	gggcctcatg	tgtaccagga	cctc	cttgg	gcagggagag		1260
cacgctgccc	cctccat	ttt	ctctcaatc	tggaa	ctacaacag		1320
gggtcagccc	attcttactt	ccctggatc	aaatcaagaa	gaagcatatg	tcacca		1380
cagctctac	caaaccagt	gaagtgtaa	aaacccagac	tgaacttacc	gtgagcgcaca		1440
aagatgattt	aaaaggaa	ag	tctagagttc	ctagtctcc	tcacagcaca		1500

aattagcaaa accccactac acagtctgca agattctgaa acattgcttt gaccactt 1560
 cctggatgtca gtggcactca acatgagtc agagcatct gcttctacca tgtggatttg 1620
 gtcacaaggta ttaaggtgac ccaatgattc agctattt 1658

<210> 402
 <211> 1152
 <212> DNA
 <213> Homo sapiens

<400> 402
 tcagaggatcca cgaggccagcc gaggaagagg aggcttgagg cccagggtgg gcaccagcc 60
 gccatggcca cagcccgagac cgccttgcgc tccatcagca cactgaccgc cctggggccc 120
 ttccccggaca cacaggatga ctccctcaag tgggtggcgt ccgaagaggc gcaggacatg 180
 ggcccccgggtc ctccctgaccc cacggagccg cccctccacg tgaagtctga ggaccagccc 240
 ggggaggaag aggacgatga gagggggcgcg gacgcccacct gggaccttggaa tctccctcctc 300
 accaacttct cggggcccgaa gcccgggtggc ggcgcggcaga cctgcgcgtt ggcgcggcage 360
 gaggcctccgg gggcgcaata tccggccggc cccgagactc tgggcccata tgctggccggc 420
 cccggggctgg tggctgggtt tttgggttcg gaggatcaact cgggttgggt ggcgcctgc 480
 ctgcgcggccc gggctcccgaa cgccttcgtg ggcgcggccc tggctccagg cccggggccccc 540
 gagcccaagg cgctggcgtt gcaaccgggtg tacccggggc cggggccggcgtt ctcctccgggt 600
 ggctacttcc cgcggaccgg gctttcagtg cctgcggcgtt cggggccccc ctacgggcta 660
 ctgtccgggtt acccccgcat gtacccggcg cctcagttacc aaggggactt ccagctttc 720
 cggggcgtcc agggaccggc gcccgggtccc gccacgtccc ctccttcctt gagttgtttg 780
 ggacccggga cgggtgggcac tggactcggg gggactgcag agatccagg tgtgatagcc 840
 gagaccggcgc catccaagcg aggccgacgt tcgtggcgc gcaagaggca ggcagcgcac 900
 acgtgcgcgc accccgggtt cggcaagagc tacaccaaga gctccacact gaaggcgcac 960
 ctgcgcacgc acacaggggaa gaagccatac gcctgcacgt gggaggctg cggctggaga 1020
 ttccgcgcgtt cggacgagct gacccggccac taccggaaac acacggggca ggcgccttc 1080
 cgctgccaggc tctgcccacg tgcttttcg cgctctgacc acctggccctt gcacatgaag 1140
 cgccacccccc tt 1152

<210> 403
 <211> 2032
 <212> DNA
 <213> Homo sapiens

<400> 403
 cgcctggacc atgtgaatgg ggccagaggc ctccgggtt gggcagggac catgggctgt 60

ggctgcagct cacacccgga agatgactgg atggaaaaca tcgatgtgtg tgagaactgc	120
cattatccca tagtcccaact ggatggcaag ggcacgctgc tcatccgaaa tggctcttag	180
gtggggacc cactggttac ctacgaaggc tccaatccgc cggctcccc actgcaagac	240
aacctggta tcgctctgca cagctatgag ccctctcaeg acggagatct gggcttgag	300
aagggggaac cactccgcat cctggagcag agcggcgagt ggtggaaaggc gcagtcctcg	360
accacgggcc aggaaggctt catccccttc aattttgtgg ccaaaggcga cagcctggag	420
cccgAACCTT ggttctcaa gaacctgagc cgcaaggacg cggagcggca gctcctggcg	480
cccgaaaca ctcacggctc ctteccatc cgggagagcg agagcacccgc cgggtccctt	540
tcactgtcg tccgggactt cgacaaaaac cagggagagg tggtaaaaca ttacaagatc	600
cgtaatctgg acaacggtgg ctteccatc tccccctcgaa tcactttcc cggcctgcat	660
gaactggtcc gccattacac caatgcttca gatgggctgt gcacacggtt gagccggccc	720
tgccagacc agaagccccaa gaagccgtgg tgggaggacg agtgggaggt tcccaggagg	780
acgctgaagc tggtggagcg gctgggggtt ggacatgtcg gggaggtgtg gatgggtac	840
tacaacgggc acacgaaggt ggcggtaagc agcctgaagc agggcagcat gtccccggac	900
gccttcctgg ccgaggccaa cctcatgaaag cagctgcaac accagcggct gggtccgctc	960
tacgctgtgg tcacccagga gccccatctac atcatcaactg aatacatggaa gaatgggagt	1020
ctagtggatt ttctcaagac cccttcaggc atcaagttga ccatcaacaa actcctggac	1080
atggcagccc aaattgcaga aggcatggca ttcatgaaag agcggattaatttcatcg	1140
gaccttcggg ctgccaacat tctgggtctt gacaccctga gctgcaagat tgcagacttt	1200
ggcctagcac gcctcattga ggacaacgag tacacagcca gggagggggc caagttccc	1260
attaagtggaa cagcggccaga agccattaac tacgggacat tcaccatcaa gtcagatgt	1320
tggcttttgg ggttctgtt gacggaaattt gtcacccacg gccgcattttt ttaccagggg	1380
atgaccaacc cggaggtgtat tcagaacactg gagcgaggctt accgcattgtt ggcgcctgac	1440
aactgtcccg aggagctgtt ccaactcatg aggctgtgtt ggaaggagcg cccagaggac	1500
cggcccaccc ttgactactt ggcgcgtgtt ctggaggact tttcacggc cacagaggcc	1560
cagtaccagc ctcagecctt agaggaggcc ttgagaggcc ctgggggtttt ccccttttt	1620
ctccacgcttggacttggggat atggaggatctt tttgtccatag tcacatggcc tatgcacata	1680
tggactctgc acatgaaatcc caccacatg tgacacatata gacacccatg tctgtacacg	1740
tgtccctgttag ttgcgtggac tttgtccatg tttgtccatg gtgtacccctg tttgtacatgt	1800
tcttggacat tgtacaaggat accccatccatg ggctctccca tttccatgaga ccaccaggaga	1860

gagggggagaa	gcctgggatt	gacagaagct	tctgcccacc	tacttttctt	tcctcagatc	1920
atccagaagt	tcctcaaggg	ccaggacttt	atctaatacc	tctgtgtgt	cctcccttggt	1980
gcctggcctg	gcacacatca	ggagttcaat	aatgtctgt	tgatgactgc	cg	2032

<210> 404
<211> 3084
<212> DNA
<213> Homo sapiens

<400> 404	aagatctaaa	aacggacatc	tccaccgtgg	gtgggtcctt	tttctttttc	tttttttccc	60
	acccttcagg	aagtggacgt	ttcggttatct	tctgatcctt	gcaccttctt	ttggggaaac	120
	ggggcccttc	tgcccaagtc	ccctctcttt	tctcgaaaaa	caaactacta	agtcggcata	180
	ccccggtaact	acagtggaga	gggtttccgc	ggagacgcgc	cgccggaccc	tcctctgcac	240
	tttggggagg	cgtgctccct	ccagaacccg	cggttcgcgc	gccaatcc	cgcgacgcgc	300
	gggtcgcggg	gtggccgcgc	gggcgcgc	gtcttagcgc	cgccgcgcag	acgccccccgg	360
	agtcgcacagc	taccgcagcc	ctcgccgc	agtgcccttc	ggccctcggg	cgggcgccgt	420
	cgtcggtctc	cgcgaagcgg	gaaagcgcgg	eggccgcgg	gatteggcgc	ccgcggcgc	480
	tgctccggct	gccggccgc	ggccccgcgc	tcgcggcc	cgctgtcc	tg	540
	ctgcacacac	ccttcaact	ctctttctt	ccccaccc	ttagtttacc	ctctgtcttt	600
	cctgctgttg	cgcgggtgt	cccacagcgg	agcggagatt	acagagccgc	cgggatgccc	660
	caactctccg	gaggaggtgg	cgccggccgg	ggggacccgg	aactctgcgc	cacggacgag	720
	atgatcccc	tcaaggacga	gggcgcattct	cagaaggaaa	agatcttcgc	cgagatcagt	780
	catccccaa	aggaaggcga	tttagctgac	atcaagtctt	ccttggtcaa	cgagtctgaa	840
	atcatcccc	ccagcaacgg	acacgaggtg	gccagacaag	cacaaaccc	tcaggagccc	900
	taccacgaca	agggccagaga	acaccccgat	gacggaaac	atccagatgg	aggcccttac	960
	aacaaggggac	cctcctactc	gagtttatcc	gggtcataaa	tgatgccaaa	tatgatataac	1020
	gaccatata	tgtcaaatgg	atctttttt	ccacccatcc	cgagaacatc	aaataaaatgt	1080
	cccggtgtgc	agccatccca	tgcggccat	cctctcaccc	ccctcatcac	ttacagtgc	1140
	gagcactttt	ctccaggatc	acacccgtca	cacatccat	cagatgtcaa	ctccaaacaa	1200
	ggcatgtcca	gacatctcc	agtcctgtat	atccctactt	tttattccctt	gtcccccgggt	1260
	gggtgtggac	agatcacc	accttttggc	tggcaaggtc	agcctgtata	tcccatca	1320
	gggtggattca	ggcaacccta	cccatectea	ctgtcagtc	acacttccat	gtcccggtt	1380
	tcctccatata	tgatccccgg	tcctctgtt	ccccacacaa	ctggcatccc	tcateccagct	1440

atgttaaacac	ctcaggtaaa	acaggaacat	ccccacactg	acagtgcacct	aatgcacgtg	1500
aaggcctcagc	atgaacagag	aaaggagcag	gagccaaaaa	gacctcacat	taagaagcct	1560
ctgaatgtt	ttatgttata	catgaaaagaa	atgagagcga	atgtcggtgc	tgagtgtact	1620
ctaaaagaaa	gtgcagctat	caaccagatt	cttggcagaa	ggtggcatgc	cctctcccgt	1680
gaagagcagg	ctaaatatta	tgaattagca	cggaaagaaa	gacagctaca	tatgcagctt	1740
tatccaggt	ggtctgcaag	agacaattat	ggtaaaaaaa	agaagaggaa	gagagagaaa	1800
ctacaggaat	ctgcatcagg	tacaggtcca	agaatgacag	ctgcctacat	ctgaaacatg	1860
gtggaaaacg	aagctcatc	ccaacgtgc	aagccaaggc	agcgcacccc	ggacctcttc	1920
tggagatgga	agcttggta	aaacccagac	tgtctccacg	gcctgcccag	tcgaegccaa	1980
aggaacactg	acatcaattt	taccctgagg	tcactgctag	agacgctgtat	ccataaaagac	2040
aatcaactgc	aacccctt	tcgtctactg	caagggccaa	gttccaaaat	aaagcataaa	2100
aaggttttt	aaaaggaaat	gtaaaaggac	atgagaatgc	tagcaggctg	tggggcagct	2160
gaggcagctt	tctccccca	tatctgcgtg	cacttccag	agcatcttgc	atccaaacct	2220
gtAACCTTTC	ggcaaggacg	gtAACTTGGC	tgcatttgcc	tgtcatgcgc	aactggagcc	2280
agcaaccagc	tatccatcg	caccccgatg	gaggagttca	tggaaagagtt	cccttttgt	2340
ttctgttca	ttttctttc	ttttctttc	tcctaaagct	tttatthaac	agtgc当地	2400
gatgttttt	ttttgtttt	ttaaaactga	attttttaa	tttacactt	tttagtttaa	2460
ttttcttgta	tattttgcta	gctatgagct	tttaaataaa	attgaaagtt	ctggaaaagt	2520
ttgaaataat	gacataaaaa	gaageccttc	ttttctgaga	cagcttgct	ggtaagtggc	2580
ttctctgtga	attgcctgta	acacatagtg	gcttccgc	ccttgcagg	tgttcagtag	2640
agctaataa	atgtaatagc	caaaccac	tctgtggta	gcaattggca	gccctatttc	2700
agtttatttt	ttcttctgtt	ttttttttaa	acagtaaacc	ttaacagatg	2760	
cgttcagcag	actggtttg	agtgaatttt	catttcttcc	cttatcaccc	ccttgcgttgc	2820
aaaagcccg	cacttgaatt	gttattactt	taaatgttct	gtatgttat	ctgtttttat	2880
tagccaaatta	gtgggatttt	atgccagttg	ttaaaatgag	cattgatgta	cccattttt	2940
aaaaaaagcaa	gcacacgcctt	tgccaaaaac	tgtcatccct	acgtttgtca	ttccagtttg	3000
agttaatgtg	ctgagcattt	ttttaaaaga	agctttgtaa	taaaacattt	ttaaaaatttg	3060
tcatttaaaa	aaaaaaaaaa	aaaa				3084

<210> 405
<211> 1743
<212> DNA
<213> Homo sapiens

<400> 405
 cagtatccct cctgacaaaa ctaacaaaaa tcctgttagc caaataatca gcccattca 60
 tatttaccgt caaagtttt atcctcatt tacagcagtg gagagcgtt gccccgggtc 120
 ccacgttagg aagagagaga actgggattt gcacccaggc aatctggga cagagctgtg 180
 atcacaactc catgagtcag ggccgagcca gcccattcac caccagccgg ccgcgccccg 240
 ggaaggaagt ttgtggcga ggagggttcgt acgggaggag gggggggcgc ccacgcatt 300
 ggggctgact cgcttcttcg caaaacgtct gggaggagtc cctggggcca caaaactgcc 360
 tccttcttga gcccagaagg agagaagacg tgccaggacc ccgcgcacag gagctgcct 420
 cgcgacatgg gtccacccgcg gctgtgcgc ctgcgtctgc tgctccacac ctgcgtccca 480
 gccttcttggg gcctgcggtg catgcgtgt aagaccaacg gggattgcgc tgtggaaagag 540
 tgccgccttgg gacaggaccc tgcaggacc acgatcgtgc gcttgtggga agaaggagaa 600
 gagctggagc tggtggagaa aagctgtacc cactcagaga agaccaacag gaccctgagc 660
 tatcgactg gcttgaagat caccagcctt accgagggtt tggtgggtt agacttgtc 720
 aaccaggcga actctggccg ggctgtcacc tattccgaa gccgttaccc cgaatgcatt 780
 tcctgtggct catcagacat gagctgtgag agggggccgcg accagagcc tgcgtccgc 840
 agccctgaag aacagtgcctt ggatgtggtg acccactgga tccaggaagg tgaagaaggg 900
 cgtccaaagg atgaccgcga cctccgtggc tggtggctacc ttccggctg cccgggtcc 960
 aatggtttcc acaacaacga caccttccac ttccgtaaaat gctgcaacac caccaaatgc 1020
 aacgagggcc caatcctgga gcttggaaat ctgcgcaga atggccgcga gtgttacagc 1080
 tgcaaggggc acagcaccca tggatgtcc tctgaagaga ctttcctcat tgactgcgcg 1140
 gggcccatga atcaatgtct ggtggccacc ggcaactcactg aaccggaaaaa ccaaagctat 1200
 atggtaagag gctgtgcac cgcctcaatg tgccaaatcg cccacctggg tgacgccttc 1260
 agcatgaacc acattgtatgt ctccgtctgt actaaaatgt gctgtaaacca cccagaccc 1320
 gatgtccagt accgcgtgg ggctgtctct cagcctggc ctgcctccat cagcctcacc 1380
 atcaccctgc taatgactgc cagactgtgg ggaggcactc tccctctggc ctaaacctga 1440
 aatccccctc tctgccttgg ctggatccgg gggacccctt tgcccttccc tgggtccca 1500
 gcctcatacaga ctgtgtgt gacctcaggc cagtgccgc acctctctgg gcctcgttt 1560
 tccctcgtat gaaaacgtt atctcacaaa gttgtgtgaa gcagaagaga aaagctggag 1620
 gaaggccgtg ggcaatggga gagcttctgt tatttataat attgtggccg ctgtgtgtt 1680
 gtgttatttataatatttataat ttttataactt acataaaatgt tttgtaccag 1740
 tgg 1743

<210> 406
<211> 1204
<212> DNA
<213> Homo sapiens

<400> 406
gaaaattctta caaaaactga aagtgaaatg aggaagacag attgagcaat ccaatcgag 60
ggtaaatgcc agcaaaccta ctgtacagta gggtagaga tgcagaaagg cagaaaggag 120
aaaattcagg ataaactctcc tgaggggtga gccaaaggct gccatgtagt gcacgcagga 180
catcaacaaa cacagataac aggaaatgat ccattccctg tggtcactta ttctaaaggc 240
cccaaccctc aaagttaag tagtgatatg gatgactcca cagaaaggga gcagtcacgc 300
cttacttctt gccttaagaa aagagaagaa atgaaactga aggagtgtgt ttccatcctc 360
ccacggaaagg aaagccccctc tgccgatcc tccaaagacg gaaagctgct ggctgcaacc 420
ttgctgtgg cactgctgtc ttgctgcctc acgggttgtt ctttctacca ggtggccccc 480
ctgcaagggg acctggccag cctccgggca gagctgcagg gccaccacgc ggagaagctg 540
ccagcaggag caggagcccc caaggccgc ctggaggaag ctccagctgt caccgcggga 600
ctgaaaatct ttgaaccacc agctccagga gaaggcaact ccagtcaaa cagcagaaat 660
aagcgtgccg ttcaagggtcc agaagaaaca gtcactcaag actgcttgc actgattgca 720
gacagtgaaa caccaactat acaaaaaggta tcttacacat ttgttccatg gtttcagc 780
tttaaaaggg gaagtgcctc agaagaaaaa gagaataaaa tattggtaaa agaaaactgtt 840
tactttttta tatatggtca gtttttatat actgataaga cctacgccccat gggacatcta 900
attcagggaa agaagggtcca tgcgtttggg gatgaattga gtctggtgac tttgttcgaa 960
tgtatttcaa atatgcgtca aacactaccc aataattctt gctattcagc tggcattgca 1020
aaactggaaag aaggagatga actccaaacctt gcaataccaa gagaaaatgc acaaataatca 1080
ctggatggag atgtcacatt ttttggtgca ttgaaaactgc tgtgacccatc ttacaccatg 1140
tctgttagcta ttttccccc tttctctgtta cctctaaagaa gaaagaatct aactgaaaat 1200
acca 1204

<210> 407
<211> 1666
<212> DNA
<213> Homo sapiens

<400> 407
ctccataagg cacaaacttt cagagacacg agagcacaca agtttctagg acaagagcca 60
ggaagaaaacc accggaaagg accatctcac tgtgtgtaaa catgacttcc aagctggccc 120

tggctcttgc	ggcagccttc	ctgatttctg	cagctctgtg	tgaaggtgca	gttttgc当地	180	
ggagtctaa	agaacttaga	tgtcagtgc	taaagacata	ctccaaacct	ttccacccc当地	240	
aatttatcaa	agaactgaga	gtgattgaga	gtggaccaca	ctgcgc当地	acagaaaatta	300	
ttgtaaagct	ttctgtatgga	agagagctc	gtctggaccc	caaggaaaac	tgggtgc当地	360	
gggttgtgga	gaagtttttg	aaaggggctg	agaattcata	aaaaaaattca	ttctctgtgg当地	420	
tatccaagaa	tcagtgaaga	tgccagtga	acttcaagca	aatctacttc	aacacttcat当地	480	
gtattgtgtg	ggtctgtgt	agggttgcca	gatgcaatac	aagattcctg	gttaaatttg当地	540	
aatttcagta	aacaatgaat	agttttcat	tgtaccatga	aatatccaga	acatacttat当地	600	
atgtaaagta	ttatatttatt	gaatctacaa	aaaacaacaa	ataatttta	aatataagg当地	660	
ttttccataga	tattgcacgg	gagaatatac	aaatagcaaa	attgaggcca	agggcca当地	720	
gaatatccga	actttaattt	caggaattga	atgggttgc	tagaatgtga	tatgtgaa当地	780	
atcacataaa	aatgtggga	caataaattt	tgccataaag	tcaaatttag	ctggaaatcc当地	840	
tggtttttt	tctgttaaat	ctggcaaccc	tagtctgct	gccaggatcc	acaagtcc当地	900	
gttccactgt	gccttggttt	ctcccttatt	tctaagtgg	aaaagtatta	gccaccatct当地	960	
tacctcacag	tgatgtgtg	aggacatgt	gaagcacttt	aagtttttc	atcataacat当地	1020	
aaattatattt	caagtgttaac	ttattaacct	atttatttatt	tatgttattt	tttaagc当地	1080	
aaatatttgt	gcaagaattt	ggaaaaatag	aaagatgaatc	attgattgaa	tagttataaa当地	1140	
gatgtttag	taaatttattt	ttatgtttaga	tattaaatga	tgttttatta	gataaatttc当地	1200	
aatcagggtt	tttagattaa	acaaacaaac	aattgggtac	ccagttaaat	tttcatttca当地	1260	
gataaacaac	aaataatttt	ttagtataag	tacattattt	tttatctgaa	attttattg当地	1320	
aactaacaat	cctagttga	tactcccagt	cttgc当地	ccagctgtgt	tggtagtgc当地	1380	
gtgttgaatt	acggaataat	gagttttaga	ac	tattaaaca	gccaaaactc	cacagtcaat当地	1440
attagtaatt	tcttgctgg	tgaaacttgc	tttattatgt	caaatacgatt	cttataat	1500当地	
tattnaaatg	actgcatttt	taaatacaca	gctttatatt	ttaacttta	agatgtttt当地	1560	
atgtctctc	caaattttt	ttactgtttc	tgattgtatg	gaaatataaa	agtaaatat当地	1620	
aaacatttaa	aatataat	ttgttcaaag	taaaaaaaaaa	aaaaaaa当地	1666		

<210> 408

<211> 960

<212> DNA

<213> Homo sapiens

<400> 408

agcagctcca accagggcag cttccctgag aagatgcaac caatcctgct tctgtggcc 60

ttccctctgc	tggcccaggc	agatgcaggg	gagatcatcg	ggggacatga	ggccaagccc	120
cactcccgcc	cctacatggc	ttatctttag	atctgggatc	agaagtctct	gaagaggtgc	180
ggtgtggcttc	tgataacaaga	cgacttcgtg	ctgacagctg	ctcaactgttg	gggaagctcc	240
ataaaatgtca	ccttgggggc	ccacaatatac	aaagaacagg	agccgaccca	gcagtttatac	300
cctgtgaaaa	gaccatccc	ccatccagcc	tataatccct	agaacttctc	caacgacatc	360
atgctactgc	agctggagag	aaaggccaag	cgaggccagag	ctgtgcagcc	cctcaggcta	420
cctagcaaca	aggcccaggt	gaagccaggg	cagacatgca	gtgtggccgg	ctggggcag	480
acggcccccc	tgggaaaaca	ctcacacaca	ctacaagagg	tgaagatgac	agtgcaggaa	540
gatcggaaagt	gcgaatctga	cttacgccc	tattacgaca	gtaccattga	gttgtgcgtg	600
ggggacccag	agattaaaaaa	gacttccctt	aaggggact	ctggaggccc	tcttgcgtgt	660
aaaaagggtgg	cccaggccat	tgtctcttat	ggaccaaaca	atggcatgcc	tccacgagcc	720
tgcaccaaaag	tctcaagctt	tgtacactgg	ataaagaaaa	ccatgaaacg	ctactaacta	780
caggaagcaa	actaagcccc	cgctgtaatg	aaacaccttc	tctggagcca	agtccagatt	840
tacactggga	gaggtgccag	caactgaata	aatacctctc	ccagtgtaaa	tctggagcca	900
agtccagatt	tacactggga	gaggtgccag	caactgaata	aatacctctt	agctgagtgg	960

<210> 409

<211> 1909

<212> DNA

<213> Homo sapiens

<400> 409	gaggtgtttc	ccttagtat	ggaaactcta	taagagagat	ccagcttgcc	tcctcttgag	60
cagttagcaa	cagggtcccg	tccttgacac	ctcagcctct	acaggactga	gaagaagttaa	120	
aaccgtttgc	tggggctggc	ctgactcacc	agctgcccatt	cagcagccct	tcaattaccc	180	
atatccccag	atctactggg	tggacagcag	tgccagctct	ccctggggcc	ctccaggcac	240	
agttcttccc	tgtccaaacct	ctgtgcccag	aaggcctggt	caaaggaggc	caccaccacc	300	
accggccacc	ccaccactac	caccccgcc	gccggccca	ccactgcctc	cactaccgct	360	
gccacccctg	aagaagagag	ggaaccacag	cacaggcctg	tgtctcttg	tgatgttttt	420	
catggttctg	tttgccttgg	taggattggg	cctggggatg	tttcagctct	tcacacccata	480	
gaaggagctg	gcagaactcc	gagagtctac	cagccagatg	cacacagcat	catctttgga	540	
gaagcaata	ggccacccca	gtccacccca	tgaaaaaaaa	gagctgagga	aagtggccca	600	
tttaacaggc	aagtccaaact	caaggtccat	gcctctggaa	tggaaagaca	cctatggaaat	660	
tgtccctgctt	tctggagtga	agtataaaga	gggtggccctt	gtgatcaatg	aaactgggct	720	

gtactttgta tattccaaag tatacttccg gggtaatct tgcaacaacc tgcccccttag	780
ccacaaggc tacatgagga actctaagta tccccaggat ctggtgatga tggaggggaa	840
gatgatgago tactgcacta ctggccagat gtggcccgcc agcagctacc tggggggcagt	900
gttcaatctt accagtgcgt atcatttata tgtcaacgta tctgagctct ctctggtcaa	960
ttttggaa ttcacacgt tttccggctt atataagctc taagagaagc actttggat	1020
tcttccatt atgattctt gttacaggca ccgagaatgt ttttgcgtt gagggtcttc	1080
ttacatgcat ttgaggtcaa gtaagaagac atgaaccaag tggaccttga gaccacaggg	1140
ttcaaaaatgt ctgtacgtcc tcaactcacc taatgtttat gagccagaca aatggaggaa	1200
atgacggaa gaacatgaa ctctggctg ccatgtaaag aggagaagc atgaaaaaagc	1260
agctaccagg ttttctcacac tcatcttagt gcctgagagt atttaggcag attgaaaagg	1320
acaccccttta actcacctct caaggtggc cttgtacctt caagggggac tgccttcag	1380
atacatggtt gtgaccttag gatthaaggg atggaaaagg aagactagag gcttgcataa	1440
taagctaaag aggctgaaag aggccaatgc cccactggca gcatcttcac ttctaaatgc	1500
atacccttagt ccacgggtga aactaacaga taagcaagag agatgttttg gggactcatt	1560
tcattccata cacagcatgt gtatcccag tgcaattgta ggggtgtgt tggtgtgt	1620
tgtgtgtgt tggtatgac taaagagaga atgttagatat tgtaagtac atattaggaa	1680
aatatgggtt gcattttgtc aagatttga atgttccctg acaatcaact ctaatagtgc	1740
ttaaaaaatca ttgattgtca gctactaatg atgtttccct ataataataat aaatatttat	1800
gtagatgtgc atttttgtga aatgaaaaca tgtaataaaa agtataatgtt aggataaaaa	1860
aaaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1909

<210> 410

<211> 2700

<212> DNA

<213> Homo sapiens

<400> 410

gcggcgccata gtcccggtc ggccggagtg cagttctgag tcccggccgg cgtgcgcgga	60
gcggggcagc cagcagcggg ggcgcggcgc gcagcacacc cggggaccat gggctccatg	120
ttccggagcg aggaggtggc cctggtccag ctctttctgc ccacagcggc tgcctacacc	180
tgcgtgagtc ggctggcga gctggccctc gtggagttca gagacctaa cgcctcggt	240
agcgccttc agagacgctt tggttgtat gtccggcgct gtgaggagct ggagaagacc	300
ttcaccttcc tgcaggagga ggtgcggcgg gctgggctgg tcctgcccccc gccaaagggg	360
aggctgcccgg caccggcacc cccggacactg ctgcgcaccc aggaggagac ggagcgcctg	420

ggccaggagc tgcgggatgt	gcccccaac cagcaggccc	tgcgggccc	gctgcaccag	480
ctgcagctcc acggccgcgt	gctacgcag ggccatgaac	ctcagctggc	agccgcccac	540
acagatgggg cctcagagag	gacgccccgt	ctccaggccc	ccggggggcc	600
ctgagggtca actttgtggc	aggtgcccgt	gagccccaca	aggcccctgc	660
ctgctctgga gggcctgccc	cggcttcctc	attgcccagt	tcagggagct	720
ctggagcacc ccgtgacggg	cgagccgc	acgtggatga	ctttcctcat	780
ggtagcaga tcggacagaa	gatccgcaag	atcacggact	gcttccactg	840
ccgtttctgc agcaggagga	ggccgcctc	ggggccctgc	agcagctgc	900
caggagctgc aggaggctct	cggggagaca	gagcggttc	tgagccagg	960
gtgctgcagg tgctgcgc	agggcagggt	caggccaca	agatgaaggc	1020
gccctgaacc agtgtcagcgt	gagcaccacg	cacaatgc	tcattgcga	1080
tctgtgcag acctgcccgc	cctgcaggag	gcccgtggg	acagctcgat	1140
gtgagtgccg tggctcaccc	catccccctgc	cgggacatgc	cccccacact	1200
aaccgcctca cggccagctt	ccagggcata	gtggatgcct	acggcgtggg	1260
gaggatcaacc ccgtcccta	caccatcata	accttccct	tcctgtttgc	1320
ggggatgtgg gccacgggct	gctcatgttc	ctttcgtccc	tggccatgg	1380
aaccgcacgg ctgtgaaaggc	cgcgacaaac	gagatctggc	agacttctt	1440
tacctgtccc tgcttatggg	cctgttctcc	atctacaccc	gcttcatcta	1500
ttcagtcgcg ccaccagcat	cttccctcg	ggctggagtg	tggccgccc	1560
tctggctgga gtatgcatt	cctggccag	cacacgtgc	ttaccctgga	1620
accgggtctc tctgggacc	ctacccttt	ggcatcgatc	ctatggag	1680
aaccacttga gttcctcaa	ctccttcaag	atgaagatgt	ccgtcatct	1740
cacatggcc	ttgggggtgt	cctcgagatc	ttcaaccacg	1800
cggtgtgtgc tggagacgct	gccccggctc	accttccctgc	tggactctt	1860
gtgttccatg tcatctacaa	gtggctgtgt	gtctggctg	ccagggccgc	1920
agcatcctca tccacttcat	caacatgttc	ctcttctccc	acagccccag	1980
ctctaccctcc	ggcaggaggt	ggtccaggcc	acgctggtg	2040
cccatcctgc tgcttggcac	acccctgcac	ctgctgcacc	gccaccggc	2100
aggaggcccg ctgaccgaca	ggaggaaaac	aaggccgggt	tgctggacct	2160
tctgtgaatg gctggagctc	cgatgaggaa	aaggcagggg	gcctggatga	2220
gccgagctcg tccctccga	ggtgctcatg	caccaggcca	tccacacccat	2280

ctgggctgcg	tctccaacac	cgcctcctac	ctgcgcgtgt	ggcccccgtag	cctggcccac	2340	
gccca	ggtgt	ccgaggttct	gtggccatg	gtgtatgegc	taggcctggg	cctggcccg	2400
gagg	tggtggcg	tggcgcgtgt	ggtgctggtc	cccatcttgc	ccgccttgc	cgtatgacc	2460
gtgg	cata	tcgtgtgtat	ggagggactc	tcagccttcc	tgcacgcct	gcccgtgcac	2520
tgg	ttcc	tccagaacaa	gttctactca	ggcacgggct	acaagctgag	tcccttcacc	2580
ttcg	ctgc	cata	ggggccactg	caggctctgc	cagacctct	tcctgacctc	2640
tgagg	cagg	gaggaataaa	gacggtccgc	cctggcagt	aaaaaaaaaa	aaaaaaaaaa	2700

<210> 411
<211> 1668
<212> DNA
<213> Homo sapiens

<400> 411	atggcagccc	gtctgtctct	cctgggcata	cttctctgc	tgctgcccc	gcccgtccc	60	
gccccgtg	cc	acacagccgc	acgctcagag	tgcaagcgc	gcacaagtt	cgtgcctgg	120	
gcatggc	tg	ccgggggggg	tgtggacgt	accagctcc	gccgctcgg	ctccttcca	180	
gtggac	acac	aaaggttcc	gcccggc	ggcacctgc	ccctctgt	aaatgcct	240	
caggagg	gc	ccctccagcg	cctgcctctg	gegctcacca	actgggggc	ccagggtct	300	
ggctg	cc	ccatgtaa	cagggccaa	gtcagctca	ctgaagctgt	ggccggggat	360	
gcccgt	gt	catccgca	cgactgaa	gtcggcgt	acgtactcc	taagcccacc	420	
agaatgt	gc	atgtgtctgt	ggccggctca	cactcacagg	cagccaa	tgcagcccc	480	
aagacc	acc	aggaccagta	cagttcagc	actgacacgg	tggagtgc	cttctacagt	540	
ttccatgt	gg	tacacactcc	cccgctgcac	cctgacttca	agagggcc	cggggac	600	
ccccacc	act	tcaacgcctc	cacccagcc	gectacctca	ggcttatctc	caactacggc	660	
acccactt	ca	tccggcgt	ggagctgg	ggccgcata	eggcctcac	tgcctgtgc	720	
ac	ctgc	gagc	tggccctg	agggctc	gacaacgagg	tggaggact	780	
gagg	ccc	agg	tcaacatagg	catccacggc	agcatctg	ccgaagccaa	ggcctgtgag	840
gaga	aga	aga	gaccaa	gatgacggc	tccttccacc	aaacat	ggagccac	900
tcgg	aa	gttgg	ggcc	tcacactcc	attaacgacc	tgctgttc	gatccagg	960
ggcc	cc	gagc	ctgg	ttaaac	tccgtcccc	gcagccctgg	cctgg	1020
ta	cac	cctt	gg	cgat	ctgc	ggcc	ggac	1080
agg	ggg	ggc	cc	tcgt	gtgt	gggg	actg	1140
tgc	ccc	acc	ca	gac	ccat	ccgc	gat	1200
ggc	ggc	cc	gag	ccat	gc	atgg	gtgt	

ggggtcacca cccaggactg ctgcctcgg cagaggggcc tggcccagct ggaggtgacc 1260
 ttcatccaag catggagct gtgggggac tggttcaact ccacggatgc ctagtgaag 1320
 ctcttcttg gtggccagga gctgaggacg agcaccgtgt gggacaataa caacccatc 1380
 tggtcagtgc ggctggatt tggggatgtg ctctggcca cagggggcc cctgaggttg 1440
 caggctggg atcaggactc tggcaggac gatgacactc ttggcacctg tgatcaggct 1500
 cccaagtctg gttcccatga ggtgagatgc aacctaatac atggccacct aaaattccgc 1560
 tatcatgcca ggtgtttgcc ccacctggga ggaggcacct gcctggacta tgcccccaa 1620
 atgcttctgg gggagcctcc aggaaaccgg agtggggccg tgtggtga 1668

<210> 412
 <211> 921
 <212> DNA
 <213> Homo sapiens

<400> 412
 ttctatgcaa agaaaaagc cagcagcagc cccaagctga taagattaat ctaaagagca 60
 aattatggta taatttccta tgctgaaact ttgttagttaa tttttttaaa aggtttcatt 120
 ttcctattgg tctgatttca caggaacatt ttacctgttt gtgaggcatt ttttctctg 180
 gaagagaggt gctgattggc cccaagtgc tgacaatctg gtgtaacgaa aatttccaat 240
 gtaaactcat tttccctcg tttcagcaat tttaaatcta tatatagaga tatcttgc 300
 agcattgcat cgtagcttc tcctgataaa ctaattgcct cacattgtca ctgcaaatcg 360
 acaccttata atgggtctca cttcccaact gcttccccct ctgttcttcc tgctagcatg 420
 tgccggcaac tttgtccacg gacacaagtg cgatatcacc ttacaggaga tcatcaaaac 480
 tttgaacagc ctcacagac agaagactct gtgcaccgag ttgaccgtaa cagacatctt 540
 tgctgctcc aagaacacaa ctgagaagga aaccttctgc agggctgcga ctgtgctccg 600
 gcagttctac agccaccatg agaaggacac tcgctgcctg ggtgcgactg cacagcagtt 660
 ccacaggcac aagcagctga tccgattctt gaaacggctc gacaggaacc tctggggct 720
 ggcgggctt aattcctgtc ctgtgaagga agccaaccag agtacggtgg aaaacttctt 780
 ggaaggcta aagacgatca tgagagagaa atattcaaag tgttcgagct gaatattta 840
 atttatgagt ttttgcatgc tttatttttt aagtattttat atatttataa ctcatcataa 900
 aataaaatgat atatagaatc t 921

<210> 413
 <211> 1282
 <212> DNA
 <213> Homo sapiens

<400> 413
 aagccaccca gcctatgcat ccgctcctca atccctctctt gttggcactg ggcctcatgg 60
 cgctttgtt gaccacggtc attgtctca cttgccttgg cggcttgc tccccaggcc 120
 ctgtgcctcc ctctacagcc ctcagggagc tcattgagga gctggtaac acaccccaga 180
 accagaaggc tccgcctgc aatggcagca tggtatggag catcaacctg acagctggca 240
 tgtactgtgc agccctggaa tccctgtatca acgtgtcagg ctgcagtgcc atcgagaaga 300
 cccagaggat gctgagcgg a ttctgcccgc acaaggcttc agctggcag tttccagct 360
 tgcgtgtccg agacacccaaa atcgagggtgg cccagttgt aaaggacctg ctcttacatt 420
 taaagaaact ttttcgcgag ggacagtta actgaaacctt cgaaagcata attatttgc 480
 gagacaggac ctgactattt aagttgcaga ttcattttt tttctgtatgt caaaaatgtc 540
 tgggttaggc gggaggagg gttaggagg ggtaaaattt cttagcttag acctcagcc 600
 gtgcgtcccg tttcagectt agccgacccctt agccttcccc ttgcccaggg ctcagcctgg 660
 tgggcctccct ctgtccaggg ccctgagctc ggtggaccca gggatgacat gtccctacac 720
 ccctccctg ccctagagca cactgttagca ttacagttgg tgccccctt gccagacatg 780
 tggtgggaca gggacccact tcacacacag gcaactgagg cagacagcag ctcaggcaca 840
 ctttttcttg gtcttattta ttattgtgtt ttatattaaat gagtgtgtt gtcaccgtt 900
 gggattgggg aagactgtgg ctgctagcac ttggagccaa gggttcagag actcaggcc 960
 ccagactaa agcagtggac accaggagtc cctggtaata agtactgtgt acagaattct 1020
 gtcacccac tggggctccctt gggcctcgga gctctatccg aggccaggc aggagagggg 1080
 cagaacagcc gctccctgtctt gccagccagc agccagctctt cagccaaacgtaatattt 1140
 gttttccctt gtatattaaat attaaatatg ttagcaaaga gttatatat agaagggtac 1200
 cttgaacact gggggagggg acattgaaca agttgtttca ttgactatca aactgaagcc 1260
 agaaataaaag ttgggtacag at 1282

<210> 414
 <211> 2025
 <212> DNA
 <213> Homo sapiens

<400> 414
 ctctgtgtg tgccatgtg taatacatat ctgggatcaa agctatctat ataaaagtcc 60
 tgattctgtg tgggttcaaa cacatttcaa agcttcaggaa tcctgaaagg ttttgcctta 120
 ctccctgaag acctgaacac cgctccata aagccatggc ttgccttggat tttcagcggc 180
 acaaggctca gctgaacctg gctaccaggaa cctggccctg cacttccttgc tttttcttc 240

tcttcatccc	tgttcttcgc	aaagcaatgc	acgtggccca	gcctgctgtg	gtactggcca	300
gcagccgagg	catgcccage	tttgggtgtg	agtatgcac	tccaggcaaa	gccactgggg	360
tccgggtgac	agtgttcgg	caggctgaca	gccagggtac	tgaagtctgt	gccccaaacct	420
acatgtatggg	aatgagttg	accttcctag	atgattccat	ctgcacgggc	acctccagtg	480
gaaatcaagt	gaacccact	atccaaggac	tgaggggcat	ggacacggga	ctctacatct	540
gcaagggtgga	gctcatgtac	ccaccggcat	actacctggg	cataggcaac	ggaacccaga	600
tttatgtata	tgtatccagaa	ccgtgcccag	attctgactt	cctcctctgg	atccttgcag	660
cagtttagtc	gggggtgttt	ttttatagct	ttctcctcac	agctgtttct	ttgagaaaaa	720
tgctaaagaa	aagaagccct	cttacaacag	gggtctatgt	gaaaatgcc	ccaacagagc	780
cagaatgtga	aaagcaattt	cagccttatt	ttattccat	caattgagaa	accattatga	840
agaagagagt	ccatatttca	atttccaaga	gctgaggca	ttctaacttt	tttgctatcc	900
agctatTTT	atttgggg	gcatttttttgc	aattttttttgc	tctcttaat	ataaaagttgg	960
atgcggAAC	caaattacgt	gtactacaat	ttaaagcaaa	ggagtagaaa	gacagagctg	1020
ggatgtttct	gtcacatcg	ctccacttc	agtgaagca	tcactggga	ttaatatggg	1080
gatgcagcat	tatgtatgg	gtcaaggaat	taagtttaggg	aatggcacag	cccaaagaag	1140
gaaaaggcag	ggagegaggg	agaagactat	attgtacaca	ccttatattt	acgtatgaga	1200
cgttatagc	cgaaatgatc	ttttcaagtt	aaattttatg	cctttttttt	cttaaacaaa	1260
tgtatgatta	catcaaggct	tcaaaaatac	tcacatggct	atgttttagc	cagtgtatgt	1320
aaaggttga	ttgcatatat	acatataatat	atataatatat	atataatatat	atataatatat	1380
atataatatat	tttaatttga	tagtattgt	catagagca	cgtatgttt	tgtgtatTTG	1440
ttaatggttt	gaatataaac	actataatggc	agtgttttc	cacctgggt	cccagggaag	1500
ttttgtggag	gagctcagga	cactaataca	ccaggtagaa	cacaaggctca	tttgcataact	1560
agcttggaaa	ctggatgagg	tcatagcgt	gtttgattgc	gtggaaattgt	gctgagttgg	1620
tgttgacatg	tgctttgggg	cttttacacc	agttccttc	aatggtttc	aaggaagcca	1680
cagctgggtg	tatctgagtt	gacttgacag	aacactgtct	tgaagacaat	ggcttactcc	1740
aggagaccca	caggtatgac	cttcttaggaa	gttccaggatc	gatggggcca	attcttacaa	1800
acatgtgggt	aatgccatgg	acagaagaag	gcagcagggt	gcagaatggg	gtgcacatgg	1860
tttctgaaa	attaacactg	tttgggtttt	taactcaata	ttttccatga	aaatgcaaca	1920
acatgtataa	tatTTTaaat	taaataaaaa	tctgtgggtgg	tcgtttaaa	aaaaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaa	2025

<210> 415
<211> 2261
<212> DNA
<213> Homo sapiens

<400> 415			
gaaaatcaggc tccggggccgg ccgaaggcg caacttccc ccttcggcgc cccacccgt	60		
cccgcgccc tccccctcgcc cccgacgttc gagccaagca gcgtccttgg gagcgcgta	120		
tggccttacc agtgaccgc ttgcctctgc cgctggcctt gctgtccac gccgecaggc	180		
cgagccagtt cgggtgtcg ccgctggata ggacctggaa cctgggcgag acagtggagc	240		
tgaagtgcaca ggtgctgctg tccaacccga cgtcggctg ctgcgtggctc ttccagccgc	300		
ggggcgccgc cgccagtcac accttccctc tatacccttc cccaaaacaag cccaaaggcg	360		
ccgaggggct ggacacccag cggttctcg gcaagagggtt gggggacacc ttgcgtccca	420		
ccctgagcga ctccggcga gagaacgagg gctactattt ctgcgtggcc ctgagcaact	480		
ccatcatgtt ctgcggccac ttgcgtggcg tcttcctgcg agcgaagccc accacgacgc	540		
cagcggccgc accaccaaca cggcgccca ccatcgcgcc gcagccccgt tccctgcgc	600		
cgaggcgtg cggcccgacg gggggggcg cagtgcacac ggggggctg gacttcgcct	660		
gtgatatatcta catctggcgcc cccttggccg ggacttgtgg ggtccttcctc ctgtcaactgg	720		
ttatcacccct ttactgcaac cacaggaacc gaagacgtgt ttgcaaatgt ccccgccctg	780		
ttggtcaaatac gggagacaag cccagccctt cggcgagata cgtctaaaccc tttgtcaacag	840		
ccactacatt acttcaaact gagatccctc cttttgggg agcaagtcct tccctttcat	900		
tttttcagttt ctccctccct gtgttattcat tctcatgatt attattttag tggggggcg	960		
gtggggaaaga ttacttttc ttatgtgtt tgacggaaa caaaactagg taaaatctac	1020		
agtacaccac aagggtcaca atactgtgtt ggcgcacatcg cgggtggcg tggaaagggg	1080		
caggccagag ctaccccgag agttctcaga atcatgctga gagagctgga ggcacccatg	1140		
ccatctcaac ctcttcccg cccgttttac aaagggggag gctaaagccc agagacagct	1200		
tgtatcaaagg cacacagcaa gtcagggttg gagcagtagc tggagggacc ttgtctccca	1260		
gctcagggtt cttcctccaa caccattcag gtctttctt cccaggcccc tttgtctcagg	1320		
tgaggtgtttt ggttctccaa cggcaaggaa acaagactt cttgtatctt gggatactgt	1380		
gcccgccgc tcgaggaggt aatgaattaa agaagagaac tgccttggc agagttctat	1440		
aatgttaaaca atatcagact tttttttttt ataatcaagc cttttttttt atagaccta	1500		
aataaaaatgtt agtgggtgac ttaacccctgg aaaatgaatc cctctatctc taaagaaaaat	1560		
ctctgtgaaa cccctatgtg gaggcgaaat tgcctccca gccccttgc tgcagagggg	1620		
cccatgaaag aggacaggct accccctttac aaatagaatt tgagcatcag tgaggtaaa	1680		

ctaaaggccct	cttgaatctc	tgaatttgag	atacaaacat	gttcctggga	tcactgatga	1740
ctttttatac	tttgtaaaga	caatttgttgg	agagccccctc	acacagccct	ggcctctgct	1800
caactagcag	atacaggat	gaggcagacc	tgactctt	aaggaggctg	agagccaaa	1860
ctgctgtccc	aaacatgcac	ttcctgttt	aaggatgtt	acaagcaatg	cctgcccatt	1920
ggagagaaaa	aacttaagta	gataaggaaa	taagaaccac	tcataattct	tcacctttagg	1980
aataatctcc	tgttaatatg	gtgtacattc	ttcctgatta	ttttctacac	atacatgtaa	2040
aatatgttt	tcttttttaa	atagggttgt	actatgtgt	tatgagtggc	ttaatgaat	2100
aaacatttgt	agcatccct	ttaatggta	aacagcaaaa	aaaaaaaaaa	aaaaaaaaaa	2160
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2220
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2261

<210> 416
<211> 1425
<212> DNA
<213> Homo sapiens

<400> 416	416					
cgatctgaga	acaagaaga	agaacttctg	tctcgagggt	ctcaactgtca	accaggccag	60
agtgcagtga	agatcatacc	tcactacatc	cgtgaactcc	cgggctcc	ccacctaagt	120
ctcttgagta	gctggactt	caggagactg	aagccaaggaa	taccagcaga	gccaaacattt	180
gcttcagtt	cctggccctg	ctgacagcgt	gcaggatgt	gttggaaacc	ggcagaggct	240
gtgtgcct	ggccatccctg	ctggcaattt	tggacatcca	gtctggtgg	tgcattaaaca	300
tcaccagctc	agtttccag	gaaggAACG	gactaaacctt	aatctgtact	gtatggcata	360
agaaagaaga	ggctgagggg	tttgtatgt	ttttgtgcaa	ggacaggct	ggagactgtt	420
ctcctgagac	cagttaaaa	cagctgagac	ttaaaaggga	tcctggata	gatggtgg	480
gtgaaatatac	atctcagtt	atgttccacca	taagccaagt	cacaccgtt	cacagtggg	540
cctaccagt	tttgtccaga	agccagaagt	caggtatccg	cttcaggc	cattttttt	600
ccatttctatt	cacagagaca	gggaactaca	cagtacggg	attgaaacaa	agacaacacc	660
tttaggttcag	ccataatgaa	ggcacatctca	gttcaggctt	cctacaagaa	aaggcttggg	720
taatgctgtt	caccagcctt	gtggcccttc	aagcttgtt	agcctgtcca	aaagaacttt	780
taaaacagct	acagcaagat	gagtctgact	atggcttagt	atcttctca	ttacaatagg	840
cacagagaag	aatgcaacag	ggcacagggg	aagagatgt	aaatatacca	agaatctgt	900
gaaatataag	ctggggcaaa	tcagttaat	cctgacttt	gctcctcacc	atcaggc	960
acttgccttc	ttccctccta	agctccagta	aataaacaga	acagcttca	ccaaagtgg	1020

tagtatagtc	ctcaaataatc	ggataaaatat	atgcgttttt	gtacccaga	aaaacttttc	1080
ctccctcttc	atcaacatag	taaaataagt	caaacaaaat	gagaacacca	aattttgggg	1140
gaataaaattt	ttatthaaca	ctgcaagga	aagagagaga	aaacaagcaa	agataggtag	1200
gacagaaagg	aagacagcca	gatccagtga	ttgacttggc	atgaaaatga	gaaaatgcag	1260
acagacctca	acattcaaca	ttcaacaaca	tccatacagc	actgctggag	gaagaggaag	1320
atttgtgcag	accaagagca	ccacagacta	caactgcccc	gcttcatacta	aatacttgtt	1380
aacctctttg	gtcatttctc	tttttaataa	aatgccata	gcagt		1425
<210>	417					
<211>	292					
<212>	DNA					
<213>	Homo sapiens					
<400>	417					
tcttcaccaa	ggggtaaattc	agtcagtttc	taaaactggt	gggaggtctc	cataaacctg	60
ataacaagat	cccaaactcc	aaactgattt	actgagttaa	ttcctgatca	tttgggttga	120
acttaagagt	tatacaagaa	aatggtaggg	gacgaggagg	ttgtataaag	ggggaaaaaaac	180
aacaactgc	aaaagccccaa	gagcctgaat	ttagaccat	ctatcatctt	cctcccttta	240
aaaagaaaaac	aatttaaaag	tttcaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa	292
<210>	418					
<211>	626					
<212>	DNA					
<213>	Homo sapiens					
<400>	418					
acatggctt	ctgacacaaac	tgtgttact	agcaacctca	aacagacacc	atggtgcatc	60
tgactcctga	ggagaagtct	gccgttactg	ccctgtgggg	caagggtgaac	gtggatgaag	120
ttgggtgtga	ggccctgggg	aggctgttgg	ttgttctaccc	ttggacccag	aggttctttg	180
agtcccttgg	ggatctgtcc	actccctgtat	ctgttatggg	caaccctaag	gtgaagggtc	240
atggcaagaa	agtgtcggt	gccttttagt	atggcttggc	tcacccgttgc	aacccatgg	300
gcacccccc	cacactgagt	gagctgtact	gtgacaagct	gcacgttgc	cctgagaact	360
tcaggtctct	gggcaacgtg	ctggctgtg	tgctggccca	tcactttggc	aaagaattca	420
ccccaccagt	gcagggtgtcc	tatcagaaag	ttgtggctgg	tgtggctaat	gccctggccc	480
acaagatata	ctaagctcg	tttctgtgt	tccaattttt	attaaagggt	cctttgttcc	540
ctaagtccaa	ctactaaact	ggggatattt	atgaagggcc	ttgagcatct	ggattctgtcc	600
taataaaaaaa	catttatttt	cattgc				626

<210> 419
 <211> 1764
 <212> DNA
 <213> Homo sapiens

<400> 419						
cgtctggttc	aggggctaga	aaagagcgtc	gatgccggcg	gcagtgtatga	gtccttaggag	60
gcgctggctc	tttggcggt	cgaggagcgc	gctgctgctg	ctgctgctgc	tgctgggtggc	120
ccctttgcag	atgtattgt	gtccttgaat	attagcccat	ttgaaaacgc	ctggaaaggt	180
cagccatcg	tatgtccaag	tacaaactta	ttatgtttaag	acatggagag	ggtgcttgg	240
ataaggagaa	ccgttttgt	agctgggtgg	atcagaaact	caacagcgaa	ggaatggagg	300
aagctcgaa	ctgtggaaag	caactcaaag	cgttaaaatt	tgagtttgc	cttgcattca	360
catctgtctt	taatcggtcc	attcacacag	cctggctgt	cctggaaagag	ctaggccagg	420
aatgggtgcc	tgtggaaagc	tcctggcgtc	taaatgagcg	tcactatggg	gccttgatcg	480
gtctcaacag	ggagcagatg	gctttgaatc	atggtaaga	acaagtgggg	ctctggagaa	540
gaagctacaa	tgtaaaaacc	cctccatttgc	aggagtctca	tccttactac	caagaaatct	600
acaacgacccg	gaggtataaa	gtatgcgtat	tgcccattgg	tcaactgcca	cggtcgaaaa	660
gcttaaaagga	tgttctggag	agactccttc	cctattggaa	tgaaaggatt	gctccggaaag	720
tattacgtgg	caaaaccatt	ctgatatatcg	ctcatggaaa	tagcagtagg	gcactcctaa	780
aacaccttgg	aggtatctca	gatgaagaca	tcatcaacat	tactttctt	actggagatcc	840
ccattttctt	gaaattggat	aaaaaccttc	gtgctgttgg	gcctcatcg	ttccctgggt	900
accaagggc	gatccaaagc	gccattaaga	aagttagaaga	tcaaggaaaa	gtgaaacaag	960
ctaaaaaata	gtctttctca	actgttggct	aagaagaaat	gcaaaagaag	tggcatagga	1020
gtgtgttatg	ggtgctgaac	tctctcttctt	tttccccat	tttccagagc	taggtgtgg	1080
agtagagttt	gtataggtaa	ctaggttaact	tattgtggcc	cagataaggc	ttttaggatgc	1140
cttcagtgctt	atgtcatgc	cttatgagtt	agctttcttgc	ctagccccct	agtcggcgtac	1200
caaaactgtt	actagtgggg	cttaatgttgc	gtcataagtt	tctgagatgg	gagagcaaca	1260
agtagagatg	aagttaaagg	tatattatcat	tcaagaatc	attattgtgt	caccattgtac	1320
aggcactatt	ctaatacgta	gttcacttta	atatttaata	agatttctg	ggataaactgt	1380
aaggatatt	agataatata	ccgttatgtat	tttattactag	tcttttcctc	tagggaaaagg	1440
gatactttga	taatgttgc	cagaggccca	ttatgttgc	aagtgcacaga	tatatttctc	1500
caagaaagcc	accaaccacc	accacaatga	cagaaatgc	accaaggccc	tttaacttgc	1560
cttcttagttt	agagacatcc	ttcatttgac	atttagtgc	attccctttt	ggccacaaga	1620

ataaggcagca aataaaacaac tatggctgtt gaggttctca ttttggtttg ttttaatttt	1680
ttgaacttgc ggtacctgtat attagttaa aaataaaagt cctgataata aagtgactga	1740
aatggccaaa aaaaaaaaaaaa aaaa	1764

<210> 420
<211> 2154
<212> DNA
<213> Homo sapiens

<400> 420 atataaccgc gtggccgcg cgcgcgcttc cctcccgcg cagtcacccgg cgccggcttat ggctgcgact tctctaattgt ctgcgttggc tgcccgctg ctgcagcccc cgcacagctg	60 120
ctcccttcgc cttegcctt tccacctcgc ggcagttcga aatgaagctg ttgtcatttc tggaaaggaaa ctggcccagc agatcaagca ggaagtgcgg caggaggtag aagagtgggt	180 240
ggcctcaggc aacaaacggc cacaccttag tgcgtatcctg gttggcgaga atcctgcaag tcactcctat gtcctcaaca aaaccaggc agctcgatgt gtggaaatca acagtgagac	300 360
aattatgaaa ccagcttcaa ttccagagga agaattgttg aatttaatca ataaactgaa taatgatgat aatgttagatg gcctccttgt tcagttgcct cttccagagc atattgatga	420 480
gagaaggatc tgcaatgc tttctccaga caaggatgtt gatggcttgc atgtatcaa tgttaggacga atgtgtttgg atcagttttc catgttacccg gctactccat ggggtgtgtg	540 600
ggaaataatc aagcgaactg gcattccaac cctagggaaag aatgtgtttg tggctggaaag gtcaaaaaac gttggaaatgc ccattgcaat gttactgcac acagatgggg cgcatgaacg	660 720
tcccgaggat gatgccactg ttacaatatac tcatcgatatac actccaaag agcagttgaa gaaacataca attcttgcag atattgtat atctgtgcata ggtattccaa atctgtatcac	780 840
agcagatatg atcaaggaaag gaggcagcgtt cattgtatgtt ggaataaaata gagttcacga tcctgttaact gccaaacccca agttgttgg agatgtgtt gttgaaggag tcagacaaaaa	900 960
agctgggtat atcactcccg ttccctggagg tggggcccc atgacagtgg caatgtatata gaagaataacc attattgtctt caaaaaaaaatgtt gctgaggctt gaagagcggag aagtgtctt	1020 1080
gtctaaagatg cttgggttag ccacttattt aactactgtgtt cttctgtgttcc acaaacacgca ctccaggccca gctcaagaag caaaggcaggc caatagaaat gcaatatttt taattttttt	1140 1200
tactgtatgtt gttttaaatgg atgcgttgc tttttttttt gcttaatgg gttgggtttt ctgcacatatac ctctgcaatgtt cttccaccagg gaggcatttca gtatcatgc ggggtctgtt	1260 1320
atcttagccat gaggcaggcat taaccttagt attaatatgg gagacattac catatggagg atggatgtttt cactttgtca agcacatccat ttacacatccat gcctttctca ggattgtttt	1380 1440

tcccaagtgc	tattgcaata	acagttgata	ctcattttag	gtaccagacc	tttgagtc	1500
aactgatcaa	accaaaggaa	aagtgttgc	agagaaaatt	ggggaaaagg	tgaaaagaa	1560
aaaatggtag	taattgagca	aaaaaaaatt	aatttatata	tgtattgatt	ggcaaccaga	1620
tttatctaag	tagaactgaa	ttggcttagga	aaaaagaaaa	actgcatgtt	aatcattttc	1680
ctaagctgc	cttttggagc	ttagtcgtt	tattggaaa	atgtttagga	ttatcccttg	1740
ctattagtagc	tcattttatg	tatgttaccc	ttcagtaagt	tctccccatt	ttagtttct	1800
aggactgaaa	ggattctttt	ctacattata	catgtgtt	gtcatatttgc	gttttgcata	1860
tatactttaa	cttcattgtt	aaattttgt	attgtatagt	ttctttgggt	tatcttaaaa	1920
cctatttttg	aaaaacaac	ttggcttgat	aatcattgg	gcagcttggg	taagtacgca	1980
acttactttt	ccaccaaaga	actgtcagca	gctgcctgt	tttctgtat	gtatgtatcc	2040
tgttactttt	tccagaaatt	tttaagagt	ttgagttact	attgaattt	atcagacttt	2100
ctgattaaag	ggttttcttt	cttttttaat	aaaacacatc	tgtctggat	ggta	2154

<210> 421
<211> 2960
<212> DNA
<213> Homo sapiens

<400> 421						
ggcacgaggg	tgtgcgtat	ggagaaaatt	gggcaccagg	gctgctccc	agattctcg	60
atctgatttc	cacgcttgc	acaaaatag	tctggcagg	ccactttgg	aagtaggcgt	120
tatctagtga	gcaggcggcc	gcttcgatt	tcgccttccc	ctaaatggct	gagcttcgt	180
ccagcgcagg	atcagcctgt	tcctggact	ttccgagacg	ccggccctcg	ttccctcccc	240
cagccgccag	taggggagga	ctcggcggt	cccgagctt	caggccccac	cggggcgcgg	300
agagtccca	gcccccccg	gaccgggacg	gegtccgagt	gccaatggct	agctctaggt	360
gtccccgtcc	cccgccgtgc	cgctgcctcc	ccggagcttc	tctcgatgg	ctggggacag	420
tactgtact	tetcgcgcac	tgggtgtgc	tcggaccgc	gtgtccccgc	atattctccc	480
tgctgggtcc	caccgcgtg	ccactgtcc	gggtctgggc	ggtggccctg	agccgctgg	540
ccgtgtctcg	gtctggggcc	tcgggggtcc	tcaggcAAC	ggttggctcc	aagagcgaaa	600
acgcagggtgc	ccagggtctgg	ctggctgtt	tgaagccatt	agctgcggca	ctgggttgg	660
ccctgcggg	acttgccttg	ttccgagacg	tgtatctatg	gggagcccc	gggtccgcgg	720
atagaccac	gtactgtcac	tggggaaatgc	accctaccgc	cttcgttgc	agttatgcag	780
cgccactgccc	cgcagcagcc	ctgtggcaca	aactcgggag	cctctgggtg	cccgccggcc	840
agggcggctc	tggaaaccct	gtcgctggc	ttctaggctg	cctgggtcg	gagacgcggcc	900

gcctctcgct	gttccctggtc	ctgggtggcc	tctccctctct	tggggagatg	gccattccat	960
tctttacggg	ccgcctcaact	gactggattc	tacaagatgg	ctcagccat	accttcaactc	1020
gaaacttaac	tctcatgtcc	attctcacca	tagccagtgc	agtgtggag	ttcgtgggt	1080
acgggatcta	taacaacacc	atgggccacg	tgcacagcca	cttgcaaggaa	gagggtttt	1140
gggctgtcct	gcccaggag	acggagttt	tccaaagaaa	ccagacaggta	aacatcatgt	1200
ctcgggtaac	agaggacacg	tccaccctga	gtgattctct	gagtgagaat	ctgagcttat	1260
ttctgtggta	cctggtgca	ggcctatgtc	tcttggggat	catgctctgg	ggatcagtgt	1320
ccctcaccat	ggtcaccctg	atcacccctgc	ctctgtttt	ccttctgccc	aagaagggtgg	1380
gaaaatggta	ccagttgtcg	gaagtgcagg	tgcgggaatc	tctggcaaag	tccagccagg	1440
tggccattga	ggctctgtcg	gccatgccta	cagttcgaag	cttgcacaa	gaggaggccg	1500
aagcccgaaa	gtttagggaa	aagctgcag	aaataaagac	actcaaccag	aaggaggcgtg	1560
tggcctatgc	agtcaactcc	tggaccacta	gtatttcagg	tatgtgtcg	aaagtgggaa	1620
tctctacat	tggtgggcag	ctggtgacca	gtggggctgt	aagcagtggg	aaccttgtca	1680
catttgttct	ctaccagatg	cagttcaccc	aggctgtgga	ggtaactgtc	tccatctacc	1740
ccagagtaca	gaaggctgtg	ggctcttcag	agaaaatatt	tgagttacgt	gaccgcaccc	1800
ctcgctgccc	accctgtgtt	ctgttgactc	ctttacactt	ggagggcctt	gtccagttcc	1860
aagatgtctc	ctttgcttac	ccaaaccgc	cagatgtt	agtgtacag	gggctgacat	1920
tcaccctacg	ccctggcag	gtgacggcgc	tggtggacc	caatgggtct	gggaagagca	1980
cagttgtcg	cctgtgtcg	aatctgtacc	agccccacgg	gggacagctg	ctgttggatg	2040
ggaagccccc	tccccatat	gagcaccgt	acctgcacag	gcagggtggct	gcagtgggac	2100
aagagccaca	ggtatggaa	agaagtcctc	aagaaaatat	tgcctatggc	ctgaccccaga	2160
agccaaactat	ggagggaaatc	acagctgtcg	cagtaaagtc	tggggccat	agtttcatct	2220
ctggactccc	tcagggtat	gacacagagg	tagacgaggc	tggggccag	ctgtcagggg	2280
gtcagcgcaca	ggcagttggcg	ttggcccgag	cattgtatcc	gaaaccgtgt	gtacttatcc	2340
tggatgtgc	caccatgtcc	ctggatgca	acagccagtt	acaggtggag	cagtcctgt	2400
acgaaagccc	tgagcggta	tcccgttcag	tgccttcat	cacccagcac	ctcagcctgg	2460
tggagcaggc	tgaccacatc	ctctttctgg	aaggaggcgc	tatccggag	ggggaaaccc	2520
accaggcagct	catggagaaa	aagggggtgt	actggccat	ggtgcaggt	cctgcagatg	2580
ctccagaatg	aaagccttct	cagacctgct	cactccatct	ccctcccttt	tcttctctct	2640
gtgggtggaga	accacagctg	cagatgtggc	agctgcctcc	aggatgagtt	acttgaatt	2700
tgcccttgagt	gtgttacctc	cttccaagc	tcctcgtat	aatgcagact	tcctggagta	2760

caaacacagg	atttgttaatt	ccttactgta	acggagttta	gagccaggc	tgtatgc	tttt	2820
gtgtggccag	cactctgaaa	ctgagaaatg	ttcagaatgt	acggaaagat	gatcagctat		2880
tttcaacata	actgaaggca	tatgtggcc	cataaacacc	ctgttaggttc	tttatattta		2940
taataaaaatt	ggtgttttgt						2960
<210>	422						
<211>	456						
<212>	DNA						
<213>	Homo sapiens						
<400>	422						
gcacagagtgg	agttgggtgt	cggctttttt	agccagcttt	tgtggaaatt	gcctttgacc		60
tattaaagaa	ggaaagtggg	taatggagtc	ccagccactc	aagagactgg	atatcccccg		120
agaatggctt	gggttaccag	ctatggacc	tttggaaatgt	aatctaatacc	ttctcactgg		180
tttttcttttgc	caaatttcatt	tgcttttatt	tttctaataaa	caataaaactc	tatttccat		240
gttctcaggg	cccctgggta	gacagacaca	gcttgatttc	agagcagaca	taggcgaaga		300
aaacatggca	ttgagtgtgc	tgagtccaga	caaatgttat	ttatatacac	atccaaattt		360
gaagagaaaa	tgtatttctt	taggttcaa	acactgtaat	agatataaag	caaaaataaaa		420
aacctgttgc	aaagttaaaa	aaaaaaaaaa	aaaaaaaaaa				456
<210>	423						
<211>	691						
<212>	DNA						
<213>	Homo sapiens						
<220>							
<221>	misc_feature						
<222>	(35)..(35)						
<223>	n is a, c, g, t or u						
<220>							
<221>	misc_feature						
<222>	(140)..(140)						
<223>	n is a, c, g, t or u						
<220>							
<221>	misc_feature						
<222>	(394)..(394)						
<223>	n is a, c, g, t or u						
<220>							
<221>	misc_feature						
<222>	(397)..(397)						
<223>	n is a, c, g, t or u						
<220>							
<221>	misc_feature						

```
<222> (401)..(401)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (404)..(404)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (412)..(412)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (536)..(536)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (569)..(569)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (581)..(581)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (615)..(615)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (619)..(619)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (640)..(640)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (651)..(651)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (662)..(662)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (677)..(677)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (680)..(680)
```

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (687)..(687)

<223> n is a, c, g, t or u

<400> 423

ttttttttt ttttttttt ttttttttt tttncaaaa tataaacttt attattttac	60
---	----

attcaagtga aacttccatc tggagggctt aaacacagct gccggccaca ttcaactgatt	120
--	-----

tattactttg ttgcctttt cgttcacctg atgaaagaat tcaaccctct taaaacata	180
---	-----

acaacaacaa aaacagctgg agagtcccg ccgtaatact aggtgttagac acgcacaaggc	240
--	-----

acacacacaa attcaaaaac ttctacatag aaaaataag gataaacatt atccatctat	300
--	-----

tttgtaactgt gtaatgcaac ttttatatac ataaatttt tttttttttt tttttttttt	360
---	-----

tttttttaa ctgttttcag tcactgcaaa tttnctnccc ncnctggga nttaaggatc	420
---	-----

caggaggag gctgccacag tgaaacaaaa aagctacatt ctgcccagg aggaaaaaaaa	480
--	-----

aaagcaattt ctgcgtcccc ttcccaagtc cttectgtcc accaccaccc cgatnttcc	540
--	-----

cgcacacagc cttccgggtga gcgggcgtnc cgtcccttcc nctctctaag gcattggggaa	600
---	-----

acaaaaggcc catangcanc ccctgccaaa aaaaaaaaaatn atctaccttt naagaaaagg	660
---	-----

cnaggggctg ggatccngcn aaaaatnact t	691
------------------------------------	-----

<210> 424

<211> 1705

<212> DNA

<213> Homo sapiens

<400> 424

ccagccctga gattcccacg tgggtccatt cagtgtatcg cactgaacac agaggactcg	60
---	----

ccatggagtt tgggtctgagc tgggtttcc ttgttgcata tttaaatgggt gtccatgttg	120
--	-----

agggtcgatgt ggtggaggtct gggggaggtg tggtaacggcc tgggggggtcc ctgagactct	180
---	-----

cctgtgcaac ctctggattc acctttgatg attccggcgc gagctgggtc cgccaagctc	240
---	-----

cagggaaaggc actggagttgg gtctctgatg ttaattggaa tgggtggatc acaaattatg	300
---	-----

cagactctgt gaagggccga ttcacccatct ccagagacaa cgccaagaac tccctataatc	360
---	-----

tacaaatgaa cagtctgaga gtcgaggaca cggccttgcata ttactgtgcg agagacccga	420
---	-----

ctaaatattt tagtgttggc agctgcctgg ggtactacat ggacgtctgg ggcaaggggaa	480
--	-----

ccacggtcac cgtctcttca gcatccccga ccagccccaa ggtctcccg ctgagcctct	540
--	-----

gcagcacccca gccagatggg aacgtggtca tggcctgcctt ggtccaggcc ttcttcccc	600
--	-----

aggagccact cagtgtgacc tggagcgaaa gccggacaggc cgtgaccgcg agaaaacttcc	660
---	-----

caccaggcca	ggatgcctcc	ggggacactgt	acaccacag	cagccagctg	accctgccgg	720
ccacacagt	cctagccggc	aagtccgtga	catgccacgt	gaagcaactac	acgaatccca	780
gcccaggatgt	gactgtgcc	tgcccaacttc	cctcaactcc	accttacccca	tctccctcaa	840
ctccacacctac	ccccatctccc	tcatgctgcc	accccccga	gtcactgcac	cgaccggccc	900
tcgaggacact	gctcttaggt	tcagaagcga	acccacgtg	cacactgacc	ggcctgagag	960
atgcctcagg	tgtcacccctc	acctggacgc	cctcaagtgg	gaagagcgt	gttcaaggac	1020
cacctgaccg	tgacctctgt	ggctgctaca	gcgtgtccag	tgtcctgccg	ggctgtgccg	1080
agccatggaa	ccatggaaag	acccactt	gcaactgctgc	ctaccccgag	tccaagaccc	1140
cgctaaccgc	caccctctca	aaatccggaa	acacattcg	gccccagggtc	cacctgctgc	1200
cgccgcgcgtc	ggaggagctg	gccctgaacg	agctggtgc	gctgacgtgc	ctggcacgtg	1260
gcttcagccc	caaggatgt	ctggttcgct	ggctgcagg	gtcacaggag	ctgccccgcg	1320
agaagtaact	gacttggca	tcccggcagg	agccctgcca	gggcaccacc	acccctcgctg	1380
tgaccagcat	actgcgcgtg	gcagccgagg	actggaagaa	ggggacacc	ttctcctgca	1440
tggtggccca	cgaggccctg	ccgctggcct	tcacacagaa	gaccatgcac	cgcttggcg	1500
gtaaaccac	ccatgtcaat	gtgtctgtt	tcatggcgg	ggtgtggacgc	acctgtctact	1560
gagccgcgcgc	cctgtccca	ccccctgaata	aactccatgc	tcccccaaaa	aaaaaaaaaaaa	1620
aaaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1680
aaaaaaaaaaa	aaaaaaaaaa	aaaaaa				1705

<210> 425
<211> 4498
<212> DNA
<213> Homo sapiens

<400> 425	gagggtctcg	acagacacaa	gtcaccttct	tattgcactt	agctctccct	ggggactttaa	60
	attttggcag	tgttccctt	tacatgatat	cctccaagat	gatgagttct	aatcctgagg	120
	aagacccttt	ggacacattt	ctccagttaca	ttgaggatata	ggggatgaag	gcctacatgt	180
	gttggttat	tcagaatgcg	tcagatattt	ctcgagagaa	tgtatgcgtt	agaaatgaaa	240
	ctaaccttagc	ctatggaaa	gagaagaatg	aaaaacgcgc	aagacaagaa	gaagcaataaa	300
	agcgcatagg	tggagaagta	gggcgaggcc	acgaaggaa	ttacgtggc	aaacattcc	360
	gcatgggatt	catgacaatg	cctgtccctc	aggacagact	tccccatctt	tgctccagtg	420
	gttttctgt	gagatcacag	tccctgcact	cggttgggg	cacagacgt	gacagcagct	480
	gtggctcacg	gagacaacca	ccacccaaac	ccaagaggga	ccccagcacc	aagctgagca	540

cctcatcaga	gacagtgcagc	agcaactgcagc	ccagtaagag	cggaaaaacc	cctgagagga	600
ctgaaggcgtc	agctaaaccac	agaccccaaca	gcgtatgata	ttccaagaag	attccctcctc	660
ccaaaccgaa	gcgaaatccg	aacactcagc	tgagcacatc	tttcgatgaa	acgtacatca	720
aaaagcatgg	gccccggagg	acgtcgctgc	cgcgggactc	ctcccttgcc	cagatggca	780
gccccgggg	agaccccgag	gaagaggagc	ccgtgtacat	cgagatggtg	ggaaacattc	840
tcagagactt	caggaaggag	gacgtatgcc	agagcgaggc	cgtctacgag	gaaatgaagt	900
acccttatctt	tgacgacttg	ggccaagacg	ccaaatgtg	cttcgaccat	cacagctgtt	960
cttcgcagtg	tgctactccc	acggtgctcg	acttggactt	cgccaaggcc	tcagtgccat	1020
gcccccccaa	ggggctgctt	tgcgacatcc	ctccggccett	ccccaaacctg	ctttctcaca	1080
gaccccccgt	gctggatattt	ccccccgccc	ccgtgcattt	ctcccccaac	tccgacgagt	1140
ccccgcattac	ccctctggag	gtcacgaage	ttcccggtct	ggaaaacgtg	tcttacatga	1200
aacagccagc	cggggcgctcg	ccctccacgc	tgccgtccca	cgtccccggc	catgcgaaac	1260
tgggaaaaga	gcaggccgcg	gcccctggac	ctgcctctgc	cacccctgcg	ctctcctcgt	1320
cgccccccacc	cccggtttaacg	ctgtaccgaa	cccaagtctcc	ccatggctac	cctaaaagtc	1380
actccaccc	tcctctcccc	gtcagcatgg	ggagggtccct	gactccccgt	agcctcaaaa	1440
ggctctcccc	ttacgacgt	gtgcattcgg	gcagcccttc	aaggagctct	cttcagtg	1500
ctcaactcgac	ccccagaccc	gtgtcgcaag	atggggccaa	gatggtaaac	gcccgggtga	1560
acacctacgg	ggcagccccg	ggtggtctccc	ggtcccccggac	acccacgagc	ccgctggagg	1620
agctgaccag	cctcttctcc	tcggccgcga	gcctgctcg	caagtcgtcc	agtggccggc	1680
gtctcaaaga	gcctgcagag	aatcaacacg	aggaactgaa	agtccgaagc	cacagcacgg	1740
agccattacc	aaagtggac	aacaaggaaa	gaggccacca	tggggcgtct	tcctccagag	1800
agcctgtcaa	agctcaggaa	tgggatggaa	caccaggccc	acctgtggtc	accagtcgac	1860
taggaagatg	ctctgtgagc	cccaccttgt	tagcggaaa	ccacagtca	gagcctaaag	1920
taagctgcaa	attaggccgg	tctgcgtcg	cgtcagggt	gcctccctca	tcagtcaactc	1980
ccctcaggca	aaggcgtgac	ctgcaacaga	gccaggtacc	atcatcgta	gccaatcg	2040
attgacttcc	tgtgatcaa	cttgccaaat	gttcccacc	tctgtctgtc	ctgttgctgt	2100
agacaacttt	cgcatttgc	tttatttttc	tatgtgtgt	tgggttaggg	gatgggggg	2160
atgagttctg	gcagtctgt	ttttcatttg	aaaaagaata	tctttcttcc	ttgtgattgg	2220
tggtaaaact	ttctttgtcg	tttgttacca	aatcggtttt	gtctctggtt	tccatcatc	2280
tgtatataaa	atgtatgtaaa	cttgactat	atgtattggc	ttagtggttc	tttttttaat	2340
tctttctctc	tttcatgttt	tgtgtacttt	tatactgtct	ctgaaaattt	atcaatattt	2400

gataaaattta tctactttgt tttatgtaga tttctttta aatgttttg ccagaacact	2460
cgcacagatg ttgtcaatga atttgtacat atttcttagc tcttatcccta ttatactgtat	2520
atatttctgg tggttttatt ttatatttagc ttggagcatg actgtaaagac actgttgaat	2580
attgtatgtcc ttataaatat tcataatcccg attcatttgg atttagttagtgc agatgttc	2640
tttcttcttt cttaggctat tgactggcct aagacagttt gactggccag acaaattgac	2700
tggccagata atctagatataa ttaacaaaaaa ctgcagatta ataaggcaac ctttaaatgtat	2760
atgacttttc tctcttatac caacaataatc agaaaatgttc tcagaaaggg aatgtaaatgt	2820
ttcatgtcatg gtaaatgaga tctcaattat cacttggaga aaagagacaa gaaataaaagg	2880
cataaaactga aatatcattt aatcctttac agcataatata gttgtctgtat tggtcgat	2940
ggtagatgtatgtatggg gaatttagtat gggggaaaat cactacacat aatgtccata	3000
ccttttagctc acccaatagg aattcaatac attgacttaa tttgtgaggc ttaattgtcg	3060
ttactgtttaa gtattatagg tggttaagttagt ggtgggtgtca ttctggatgt ttttctctt	3120
gcttccatgc ttcaatcttt gcattcatga aactcttcgt aaatagcaac ttataaaaaca	3180
ctgatgatac ctccaaggga actgccattt actgtatgaga aaattacata ttcatttattt	3240
attttaatgt tcaggctattt ttaaaaatcat aactaagttagt aataattgtcg ttttcttctt	3300
atgagagacat ttgtgcctct tagtgtttt gtctgactta aatatgcataa atagttgatt	3360
tataaaatata tgaggtatct gcaaatacaa gaaatgagag gcttctctca agggtatctc	3420
aagtaccatt tagaatttct tggtctttaa tttaaaaatgtt aatgtccctt atataaatgt	3480
ttaatgcctt tataactaaa tgtagccactt caaacactttt ttggatataa aagaagttaga	3540
aacagtaaga cactgaataa aataaataag ataaactgc aacttagcta attaaagcta	3600
ttccaaaaat attgtactta ccaacattta aagctaaaa acattgggtt ctgaaagaag	3660
agaagtttag ctaattggca gaggattgtca ctaatacaat caagtttca agtttatgtac	3720
ccttgcgtatgtt atattacattt caatatctca gagatgtttt gtattatgtt ttttgggttt	3780
ctttttctt agttgtctttt atagctgtttt cacccttaagc cccttcaaac tctcaatgtat	3840
agcagggttct tgggataaac ttccagaata gagacaaggat ataccctttt tgcccttgca	3900
ttatcaactt tttgttcacc tgatggaaag ttcttcgtttt ttcaaaatgtt agcaaggag	3960
aaagccccagg acgcctttat atgctgttagt ttcccttacc tgctgataga gattctgaca	4020
cacagtcataa tcaatacatgg gctgtcagatg ctataaattttaa gaaggctggc ctctaggctt	4080
ctccctctgtg gcttatagttcc agttgtatata tacatgtcattt cctataactt agagatgtat	4140
tggtaagcat agctcatatgtt aacactgtctc tgaactccctc tgacttagca ttcaactttaa	4200

gtcaagaaaat	acttattggc	tgggcgtggt	ggctcacgcc	tgtaatccca	gcactctggg	4260
aggcagaggt	gggtggatca	caaggtcagg	agattgagac	cacccatggct	aacacgggtga	4320
gaccccatct	ctactaaaaa	tacaaaaaaat	tagccaggtg	tggggccggg	cgcctgttagt	4380
cccgactact	tgggaggctg	aggcaggaga	atgtggtcaa	cctggggaggt	ggagcttgca	4440
gtgagctgag	atcgaccac	tgcactccag	cctgggtgac	agagcgagac	tccatctc	4498

<210> 426
<211> 3478
<212> DNA
<213> Homo sapiens

<400> 426						
attttccggg	ccggggcac	taagggtgcgc	ggccccgggg	cccagtata	gacccggccgt	60
cctgtatcc	ttcgcgttccc	ccgccccatg	tggctgggg	gcccggccgg	cgctgcccac	120
tatggcccg	aaagtagtta	gcaggaageg	gaaagcgccc	gcctcgccgg	gagctggag	180
cgacgctca	ggccgcagt	tggctggat	cactcgcttc	acaaaaggaa	aagacttcct	240
cctgtgaaga	gatccttagt	atactacttg	aagaaccggg	aagtcaggt	acagaatgaa	300
accagctact	ctcgagtgtt	gcatggttat	gcagcacagc	aacttcccag	tctcctgaag	360
gagagagagt	ttcaccttgg	gacccttaat	aaagtgtttg	catctcagtg	gttgaatcat	420
aggcaagtgg	tgtgtggcac	aaaatgcac	acgctatttg	tcgtatgt	ccagacaagc	480
cagatcacca	agatccccat	tctgaaagac	cgggagcctg	gagggtgtac	ccagcagggc	540
tgtggtatcc	atgccccatg	gctgcaccc	tctagaacac	tgctagccac	tggaggagac	600
aaccccaaca	gtcttgcac	ctatcgacta	cctacgcgtt	atcctgtgt	tgttaggagat	660
gatggacaca	aggactggat	ctttccatc	gcatggatca	gcgacactat	ggcagtgtct	720
ggctcacgt	atggcttat	gggactctgg	gagggtacag	atgatgttt	gaccaaaggat	780
gatgcgagac	acaatgtgtc	acgggtccct	gtgtatgcac	acatcactca	caaggcctta	840
aaggacatcc	ccaaagaaga	cacaaacct	gacaactgca	aggttcgggc	tctggccttc	900
aacaacaaga	acaaggaact	gggagcagtg	tctctggatg	gctactttca	tctctggaaag	960
gctgaaaata	cactatctaa	gctccctctcc	accaaactgc	catattgcgg	tgagaatgt	1020
tgtctggctt	atggtagtga	atggtcagtt	tatgcgttgg	gctcccaagc	tcatgtctcc	1080
ttcttggatc	cacggcagcc	atcatacaac	gtcaagtctg	tctgttccag	ggagcgaggc	1140
agtggatcc	ggtcagttag	tttctacag	cacatcatca	ctgtggaaac	agggcaggcc	1200
tcctgtctgt	tctatgacat	ccgagctca	agatttctgg	aagagaggct	ctcagcttgt	1260
tatgggtcca	agcccaagact	agcaggggag	aatctgaaac	taaccactgg	caaaggctgg	1320

ctgaatcatg atgaaacctg gaggaattac tttcagaca ttgacttctt cccaatgtc	1380
gttacacc actgtacga ctgcgtcgg aacaaactct ttgtggcagg aggtccccctc	1440
ccttcaggcc tccatggaaa ctatgctgg ctctggagtt aatgacaact ccccaatgc	1500
agagatttac actaacttcc atttcagtt tccttgcgtt tttgatttt tttcttaat	1560
tgtgtggc tcttggttt tagtggaaac accaaagttt gcctatgtt taggcactta	1620
ataffaaga gctctgtaca gaaatctgaa agttgtttt cttttgcgtt tcccgttgg	1680
taatcaaaat ttactatct ttattttt ctggctttc aaccaaacat tggtgttaat	1740
ccctatccctt ccttaagtga cacacattct cctgtctcg gcttcttcag gctgaaatga	1800
catagtcctt ctcaccccta ctgcacttctt gagaggtagg gctcccttat aattacatgg	1860
ttgctctcg actttctgtg aaagttggg agctgtgtgt gtctgtgtgt gtgtgagaga	1920
gagatcttgt ctgcgtgtgt gtgtgtatc ttgtgtgcct gttagtactg tggtactg	1980
aaattacctg gagtggaggat tacttgcata taataatattt ataaaaagaaa caactttatt	2040
cacagagtcg agctttggg ctagtctgta ttttgcgtt taagtctaac aacactgata	2100
ataggaactt aaaaacagaaa gaaaaagaaa ttaccactgg gaaaatcttt ttagtttagat	2160
tgttaggcttc ctggggccctc ccatgccagg actgcaaaatg gatccagccc tacctgtctt	2220
cccacctgtg tgccccccgt gtggaaagtt ggtgtactt cccctccca ccctcacatc	2280
tgcttagcca gtagccacac ccctaaaaca tcagactcac catccagtg cagctccaga	2340
ggctacaaaa ggcttcatgg gacttgcata cccatcttag cttctctctc cttccctca	2400
agacactgtatc tggttttaag gggccctggag ctggagatct caagtctgtt aagattcaca	2460
tccatagccc ccgtggcttt gaggagaatc ctctcgcca ttcttccat cttccctagtg	2520
ggttttgcta ttatccctta aattttgtt agtctaaagaa ggtgggggtg agcaggggggt	2580
ttatctgtgt gtgtgtgtgt ctccatgtgt ggaatattca ttttcttact gcaatgggac	2640
ttgggggtga agccacccctt cctactctgt ttgtgttagcc ctggagatgtt gacaggctgg	2700
cctgcagtca gcatcattgt gcatgtgaca gcatcaatgt gatttagata ttgtctgttc	2760
ctcccttgaa ctgtctgtttt agtctggatgt ttttaactt gcaggcagct gactgtgtat	2820
tccacttgc ttgtgtttt tacacatcat gtcaagata acagctgttc ccacccacca	2880
gttccctctaa gcacatactc tgctttctg tcaacatccc attttgggg aaggaaaagt	2940
catatccat cctgcaccc agttttttaa ttgtgtctcc cagttgtccc cctttctct	3000
gggtgtttaaga agggaaattt gaaaaaaaaat tatatatata ttgtgtttt aatgggggg	3060
ggctactgga gaggagagac agcaagtcca ccctaaacttgc ttacacagca cataccacag	3120
gttccggat ttcatcttc gaaaccttagag aaataggtgc tataaaacagg gaattaagca	3180

aaatgctgga tgctatagat ctttaatttgc tcttaattttt ttttcttata ttaaaactaca	3240
ggctgttagat ttcttagttc tcacagaact tctatcattt taaaactgact ttttatatttta	3300
aaaaaaaaaat cttcagtagg atgttttgta ctattgctag accctcttct gtaatggta	3360
atgcgtttga ttgtttgaga ctttcgtttt taaaattatgt agcacttgcac ttttgcacag	3420
aaaaaaaaataa aaaatttatttc cgtgcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	3478

<210> 427
<211> 584
<212> DNA
<213> Homo sapiens

<400> 427 atttggccct cgaggccaag aattcggcac gaggcgctca gtttcagcac ccagataatg	60
gttatatttta tctaacaatct tgagtccaa agcatgacgg cgcattttgg ggcactgaac	120
aacatcaatg caggcgctcca agtagatgca acctttcgat tcttttgaat ttttctcatc	180
ttttaggaa ttgagaatat atgaaccgtc aggaagtgg gtcaagtaaa aatatcgct	240
cttgaatacc ttcatggta ctgtgatgg actatttaca tttgctttat gcaaccagcc	300
tttgtttatc acaccaccct tctgagaaca taaagaagat gagtcctcat ctttctcaca	360
gtcttcatct atctcaaata catgatttagg aatctttctt ggtctcaaag attacatgg	420
caacattcga aagtccccag agaagtccctc atactttagt tttaccacgt gccaatctgt	480
gttataggtt ttaatacact ctttaacaaa taaaactctgg gccctttttt cagcatcttc	540
tggtacagta aaactgaacc gttctgggtt gacgacctat aacc	584

<210> 428
<211> 1679
<212> DNA
<213> Homo sapiens

<400> 428 gtttgttggc tgccgcacga ggttagcaaag tgacgccag ggcctgatgt ctccagtagc	60
caccgcacatct ggagaaccag cggttaccat ggaggggatc agtatataca cttcagataa	120
ctacaccgag gaaatgggct caggggacta tgactccatc aaggaaccct gtttccgtga	180
agaaaatgtt aatttcaata aaatcttctt gcccaccatc tactccatca tcttcttaac	240
tggcattgtg ggcaatggat tggcatactt ggtcatgggt taccagaaga aactgagaag	300
catgacggac aagtacaggc tgcacctgtc agtggccgac ctcccttttgc tcatcagct	360
tcccttctgg gcagttgtat ccgtggcaaa ctggtaactttt gggaaacttcc tatgcaaggc	420
agtccatgtc atctacacag tcaacactcta cagcagtgatc ctcatcctgg ctttcatcag	480

tctggaccgc tacctggcca tcgtccacgc caccacagt cagaggccaa ggaagctgtt	540
ggctgaaaag gtggcttatg ttggcgtctg gatccctgc ctccgtctga ctattcccgaa	600
cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gcttctaccc	660
caatgacttg tgggtggttg tgttccagtt tcagcacatc atggttggcc ttatcctgcc	720
tggtattgtc atccctgtcct gctattgtcat tatcatctcc aagctgtcac actccaagggg	780
ccaccagaag cgcaaggccc tcaagaccac agtcatacctc atccctggctt tcttcgcctg	840
ttggctgcct tactacattt ggatcagcat cgactcettc atccctctgg aaatcatcaa	900
gcaagggtgt gagtttggaga acactgtgca caagtggatt tccatcaccc agggccctagc	960
tttcttccac tgggtgtctga accccatcct ctatgtttc cttggagccaa aattttaaac	1020
ctctgcccag cacgcactca cctctgttag cagagggtcc agcctaaga tccctctccaa	1080
aggaaagcga ggtggacatt catctgtttc cactgagtttct gagtcttcaa gtttactc	1140
cagctaacad agatgtaaaaa gacttttttatacgtataa ataaactttttt ttttaagttac	1200
acattttca gatataaaaactgaccaat attgtacagt ttttattgtc tggtggattt	1260
ttgtcttgc tttctttagt ttttgtgaag ttttaattgtc ttatttatataaattttttt	1320
tgtttcatat tgatgtgtgt ctaggcagga cctgtggccaa agttttagt tgctgtatgt	1380
ctcgtggtag gactgttagaa aagggaactg aacattccag agcgtgttagt gaatcacgtaa	1440
aagctagaaa tgatccccag ctgtttatgc atagataatc tctccattcc cgtggaaacgt	1500
ttttctgtt cttaagacgt gattttgctg tagaagatgg cacttataac caaagcccaa	1560
agtggatagaa aatgtgttgtt tttcagttt tcaggagtgg gttgatttca gcacccatcag	1620
tgtacagtct ttttattttttt ttttataaa agtacatgtt aaacttactt agtgtttatg	1679

<210> 429
<211> 1702
<212> DNA
<213> Homo sapiens

<400> 429 agactcaaca agagctccag caaagacttt cactgttagct tgacttgacc tgagattaac	60
tagggaaatct tgagaataaa gatgagctct gaaaattgtt tgctgtcaga gaacagctcat	120
ttgcattccgg agagtggaca agaaaatgtat gccaccagtc cccatttctc aacaegtcat	180
gaagggtctt tccaaatgtcc tggctgtgt gctgtatga atgtggctt catcaccatt	240
ttaatcatag ctctcattgc cttatcgtg ggccaaataca attgtccagg ccaatacaca	300
ttctcaatgc catcagacag ccatgtttct tcatgtctg aggactgggt tggctaccag	360
agggaaatgtt acttttatttc tactgtgaag aggagctggaa cttcagccca aatgtttatg	420

tctgaacatg	gtgtctactct	tgctgtcatt	gattctaaaa	aggacatgaa	ctttctaaaa	480
cgatacgcag	gtagagagga	acactgggtt	ggactgaaaa	aggaacctgg	tcacccatgg	540
aagtggtaaa	atggcaaaa	atccaac	tggtaacacg	ttacagggtc	tgacaagtgt	600
gtttttctga	aaaacacaga	ggtcagcgc	atggaatgtg	agaagaattt	atactggata	660
tgtacaacaa	c ttacaaata	ataagggaaac	atgttcaactt	attgactatt	atagaatgg	720
actcaaggaa	atctgtgtca	gtggatctgt	ctctgtggtc	cgaagtcttc	catagagact	780
ttgtgaaaaa	aaatttata	gtgtcttgg	aattttcttc	caaacagaac	tatggaaaaa	840
aaggaagaaa	ttccaggaaa	atctgcactg	tggccttta	ttgccatgag	ctagaagcat	900
cacaggttga	ccaataacca	tgcccaagaa	tgagaagaat	gactatgca	cctttggatg	960
cactttatat	tattttgaat	ccagaaataa	tgaataact	aggcgtggac	ttacttatta	1020
ttgctgaatg	actaccaaca	gtgagagccc	ttcatgcatt	tgactactg	gaaggagtt	1080
gatgttgta	ctagatactg	aatgtaaaca	aaggaattat	ggctggtaac	ataggtttt	1140
agtctaattt	aatcccttaa	actcagggag	catttataaa	tggacaaatg	cttatgaaac	1200
taagatttgc	aatatttctc	tctttttaga	gaaatttgc	aatttacttt	gtattttc	1260
ccccaaaaga	atgggatgt	cgtgtattta	ttttttact	tcctcagctg	tagacaggtc	1320
ctttcgtatg	gtacatattt	cttgccttt	ataattttt	atacagtgtc	ttacagagaa	1380
aagacataag	caaagactat	gaggaatatt	tgcaagacat	agaatagtgt	tggaaaatgt	1440
gcaaatatgt	atgtggcaaa	tctctattag	gaaatattct	gtaatctca	gacctagaat	1500
aataactatgc	ttataatagg	tttgtgactt	tcctaaatca	attctattac	gtgcaatact	1560
tcaatacttc	atttaaaata	tttttatgt	caataaaatg	tatttgttt	tatttgtgt	1620
tcagtacaat	tataagctgt	ttttatata	gtgaaaataaa	agtagaataa	acacaaaaaa	1680
aaaaaaaaaa	aaaaaaaaaa	aa				1702

<210> 430
<211> 1237
<212> DNA
<213> Homo sapiens

<400> 430	gctgcagagg	attcctgcag	aggatcaaga	cagcacgtgg	acctcgacaca	gcctctccca	60
	caggtaaccat	gaaggctctcc	gccccagccc	tcgctgtcat	cctcattgt	actgcctct	120
	gcgcctctgc	atctgcctcc	ccatattct	cgacacccac	accctgctgc	tttgcttaca	180
	ttggccgccc	actgccccgt	gccccatca	aggagtattt	ctacaccagt	ggcaagtgt	240
	ccaaacccagc	agtgcgtctt	gtcacccgaa	agaaccgca	agtgtgtgcc	aacccagaga	300

agaaaatgggt	tcggggagtac	atcaactctt	tggagatgag	ctaggatgga	gagtccttga	360
acctgaacct	acacaaattt	gcctgtttct	gttgccttct	gtcttagctt	ggggaggcttc	420
ccctcactat	cctccccac	ccgcgtccctt	aaggccccag	attctaccac	acagcagcag	480
ttacaaaaac	cttccccagg	ctggacgttg	tggctcacgc	ctgtaatccc	agcactttgg	540
gaggccaagg	ttgggtggatc	acttgaggtc	aggagttcg	gaccagcctg	gccaacatga	600
tgtaaaaacc	tctctactaa	aaatacffff	aattagccgg	gcgtggtagc	gggcgcctgt	660
agtcccagct	actcggggagg	ctgaggcagg	agaatggcg	gaacccggga	ggcggagctt	720
gcagtgagcc	gagatcgcc	cactgcactc	cagcctggc	gacagagcga	gactccgtct	780
caaaaaaaaaa	aaaaaaaaaa	aaaatacaca	aattagccgg	gcgtggtagc	ccacgcctgt	840
aatcccagct	actcggggagg	ctaaggcagg	aaaattgttt	gaacccagga	ggtggaggct	900
gcagtgagct	gagattgtgc	cacttcactc	cagcctgggt	gacaaagtga	gactccgtca	960
caacaacaac	acaaaaaaagc	ttcccaact	aaagcctaga	agagcttctg	aggcgctgt	1020
ttgtcaaaag	gaagtctcta	ggttctgagc	tctggctttt	cttggcttt	gccagggctc	1080
tgtgaccagg	aagggaaagtca	gcatgcctct	agaggcaagg	agggggaggaa	cactgcactc	1140
ttaagcttcc	gccgtctcaa	cccctcacag	gagcttactg	gcaaacatga	aaaatcggt	1200
taccattaaa	gttctcaatg	caaccataaa	aaaaaaaa			1237

<210> 431
<211> 1125
<212> DNA
<213> Homo sapiens

<400> 431	ttctgccttc	gagccccaccg	ggaacgaaag	agaagctcta	tctgcctcc	aggagccag	60
	ctatgaactc	cttctccaca	agcgccttgc	gtccagttgc	cttctccctg	gggctgctcc	120
	tggtgttgcc	tgctgccttc	cctgccccag	tacccccagg	agaagattcc	aaagatgttag	180
	ccggccccaca	cagacagcc	ctcaccttct	cagaacgaaat	tgacaaacaa	attcggtaca	240
	tcctcgacgg	catctcagcc	ctgagaaagg	agacatgtaa	caagagtaac	atgtgtgaaa	300
	gcagcaaaga	ggcactggca	aaaaacaacc	tgaaccttcc	aaagatggct	aaaaaagatg	360
	gatgcttcca	atctggattc	aatgaggaga	cttgccttgt	gaaaatcatc	actggcttt	420
	tggagtttga	ggtataccct	gagttacctcc	agaacagatt	tgagatgtgt	gaggaacaag	480
	ccagagctgt	gcagatgagt	acaaaaagtcc	tgatcccgat	cctgcagaaa	aaggccaaaga	540
	atcttagatgc	aataaccacc	cctgacccaa	ccacaaatgc	cagectgctg	acgaagctgc	600
	aggcacagaa	ccagtggtcg	caggacatga	caactcatct	catttcgcgc	agctttaagg	660

agttcctgca	gtccagcctg	agggcttc	ggcaaatgt	gcatgggcac	ctcagattgt	720
tgttgttaat	gggcattcct	tcttctggc	agaaacctgt	ccactggca	cagaacttat	780
gttgttctct	atggagaact	aaaagatga	gcgtttaggac	actattttaa	ttatTTTAA	840
tttattaata	tttaaatatg	tgaagctgag	ttaatttatg	taagtcatat	ttatTTTT	900
aagaagtacc	acttgaaca	ttttatgtat	tagtttgaa	ataataatgg	aaagtggcta	960
tgcgatTTGA	atacCCTTG	tttcagGCC	agatCATTc	ttggaaATG	taggCTTacc	1020
tcaaaaaat	ggctaactta	tacatatTTT	taaAGAAATA	tttatTTTGT	atttatataa	1080
tgtataat	gttttatac	caataatgg	cattttaaaa	aattc		1125

<210> 432
<211> 1047
<212> DNA
<213> Homo sapiens

<400> 432						
cgaaTTCCCC	tatcacctaa	gtgtggcta	atgtaaACAA	gagggatttc	acctacatcc	60
attcagTCAG	tctttgggg	ttaaAGAAA	'ttccaaAGAG	tcatcagaAG	aggaaaaATG	120
aaggtaatgt	ttttcagac	aggtaaAGTC	tttGAAATA	tgtgtatAT	gtAAAACATT	180
ttgacacCCC	cataatatTTT	ttccagaATT	aacAGTataa	attgcATCTC	ttgttcaAGA	240
gttcccTATC	actctCTTA	atcactACTC	acAGTAACCT	caactCCTGC	cacaATgtac	300
aggatgcaAC	tcctgtCTTG	cattgcACTA	agtcttgac	ttgtcacAAA	cagtgcacCT	360
acttcAGTT	ctacaAGAA	aacacAGCTA	caactGGAGC	atttACTGCT	ggattttacAG	420
atgatTTGA	atgGAATTAA	taattacaAG	aatCCAAAC	tcaccaggat	gtcCACATT	480
aaggTTTACA	tgccCAAGAA	ggccacAGAA	ctgaaACATC	ttcAGTGTCT	agaAGAAAGAA	540
ctcaAAACCTC	tggagGAAGT	gtcaAAATTa	gtcAAAGCA	aaaACTTTCA	cttaAGACCC	600
aggGACTTA	tcaGCAATAT	caacGTAATA	gttctggAAC	taaAGGGATC	tGAAACAACA	660
ttcatgtGTG	aatatGCTGA	tgagACAGCA	accattGTag	aatttctgaa	cagatggatt	720
acccTTTGTc	aaAGCATCAT	ctcaACACTG	acttGATAAT	taagtGCTTC	ccacttaaaa	780
catatCAGGC	tttCTTATTa	tttaaatatt	taaattttat	atttattGTT	gaatgtatGG	840
tttgctacT	attgtAACTA	ttattcttaa	tcttaAAACT	ataaaATATGG	atcttttATG	900
attCTTTTG	taagCCCTAG	gggcTCTAA	atggTTTCAc	ttatttatCC	caaaatattt	960
attattatGT	tgaatgttaa	atatGATTC	tatGtagatt	ggtagtAAAC	actatTTAAT	1020
aaatttgata	aatataaaaa	aaaaaaa				1047

<210> 433

<211> 1242
<212> DNA
<213> Homo sapiens

<400> 433
attcatgtt atacttaata aaacaaaaca tacctgtata cacacacatt cactcacatt 60
gaagatgcaa gatgaagaaa gatacatgac attgaatgt aagtcaaaga aaaggagttc 120
tgcccaaaca tctcaactta cattaaaga ttattcagt acgttgactt ggtataaaat 180
cttactggaa atatctggaa ccgtaatgg tattctact ttgactttga tctccttgat 240
cctgttggtt tctcaggag tattgctaaa atgccaaaaa ggaagttgtt caaatgccac 300
tcagtatgag gacactggag atctaaaagt gaataatggc acaagaagaa atataagtaa 360
taaggacatt tgcgttcgaa gatctgcaga ccagacatg ctatgcacat cagaatggct 420
caataccaa gggaaagtgtt attgggtctc taatgagatg aaaagctgg a gtgacagttt 480
tgtgtattgt ttggaaagaa aatctcatct actaatcata catgaccaac ttgaaatggc 540
ttttatcacg aaaaacctaa gacaattaaa ctacgtatgg attgggctta actttaccc 600
cttggaaatcg acatggactt ggggtggatgg ttctccaaata gattcaaaga tattttcat 660
aaagggacca gctaaagaaa acagctgtgc tgccattaag gaaagcaaaa ttttctgt 720
aacctgcagc agtgtttca aatggatttg tcagtagttt agtttgacaa aatttcacatg 780
gaaataatca atgatcaacta tttttggctt attagttctt aatattaatc tccaggtgtt 840
agattttaaa gtgcaattaa atgccaaaat ctcttcctcc ttctccctcc atcatcgaca 900
ctggctcagc ctcagagttt cccctgttaa caaactaaaa tgcacacttc aaaattttta 960
cgtgatgatgta taaaccaatg tgacttcatg tgatcatatc caggattttt attcgctcgct 1020
tattttatgc caaatgtgtt caaattatgc ctgtttttctt gtatcttgcg tttttaaattc 1080
ttaataaggt cctaaacaaa atttcttata ttctaatgg ttgaattata atgtgggttt 1140
atacattttt tacccttttgc tcaaagagaa ttaactttgtt ttccaggctt ttgtactct 1200
tcactcagctt acaataaaca tcctgtatgtt tttcttaaaa aa 1242

<210> 434
<211> 2298
<212> DNA
<213> Homo sapiens

<400> 434
tcggccgagc ccagagacag ccagttcctc tcccccccgccg ccggggccgccc tgccgcgtcg 60
tccccggccg tggcgccctcc gggccagacg cgctgcagcc tccagccccgc ggcaagcggg 120
ccggggccgc gcgcaccccc cggccccgcg ccagcagccc ctgcggccgc gtccagcggtt 180
ccggccgacgc agccctccca tacgcagttcc tgctggacccg ccccgctcgccg ccccccactc 240

tgaactcaag tcaccgtgga gctccggccgc cccgaaacctt tcacgcgagc gggaaatatg	300
ggatgtataa aatcaaaaagg gaaagacagc tttagtgacg atggagttaga tttgaagact	360
caaccagtac gtaataactga aagaactatt tatgtgagag atccaacgtc caataaacag	420
caaaggcccg ttccagaatc tcagctttta cctggacaga ggttcaaac taaagatcca	480
gaggaacaag gagacattgt ggtagccttg tacccctatg atggcatcca cccggacgac	540
ttgttttca agaaaggaga gaagatggaa gtcctggagg agcatggaga atggtgaaaa	600
gcaaagtccc tttaacaaa aaaagaaggc ttcatccccca gcaactatgt ggccaaactc	660
aacaccccttag aaacagaaga gtggttttc aaggatataa ccaggaagga cgccagaaagg	720
cagcttttgg caccaggaaa tagcgttggaa gctttcccta tttagaaaa tgaaacatta	780
aaaggaagct tctctctgtc tgtcagagac tttgaccctg tgcatggta tgttatthaag	840
cactacaaaa tttagaagtct ggataatggg ggctattaca tctctccacg aatcactttt	900
ccctgtatca gcgacatgtaa acattac caaaagcagg cagatggctt gtgcagaaga	960
ttggagaagg ctgttattag tcccaagcca cagaaggccat ggataaaaga tgcctggag	1020
atccccccggg agtccatcaa gttggtaaa aggcttggcg ctggcagtt tggggaaagtc	1080
tggatgggtt actataacaa cagtaccaag gtggctgtga aaaccctgaa gccaggaact	1140
atgtctgtgc aagcccttctt ggaagaagcc aacccatgtc agaccctgtca gcatgacaag	1200
ctcgtgaggc tctacgctgt ggtcaccagg gaggagccca tttacatcat caccgagttac	1260
atggccaagg gcagtttgcg ggatccctgt aagagcgtatc aagggtggaa agtgtgtctt	1320
ccaaagctca ttgacttttc tgctcagatt gcagaggaa tggcatacat cgagcggaaag	1380
aactacattc accgggaccc tggagcgtatc aatgttctgg tctccgagtc actaatgtgc	1440
aaaatttgcg attttggct tgcttagata attgaagata atgagtacac agcaaggaa	1500
ggtgctaaatg tccctattaa gtggacggct ccagaagcaa tcaactttgg atgtttcact	1560
attaagtctg atgtgtggtc ctttggaaatc ctcctatacg aaattgtcac ctatggaaa	1620
atcccttacc cagggagaac taatggccac gtgtatggccg ccctgtccca gggctacagg	1680
atgccccgtg tggagaactg cccagatgtc ctctatgtaca ttatggaaat gtgtggaaa	1740
gaaaaggccg aagagagacc aacgtttgc tacttacaga gcgttgcgttga tgattttcac	1800
acagccacgg aagggcaata ccagcagcag ccttagagca cagggagacc cgtccatgg	1860
gcaggggtgg ctgccttattt tagagaggaa aagtaaccat cactgttgc acttatgtat	1920
tcatgtgcgg ggatcatctg ccgtgcctgg atccctgaaat agaggctaaa ttactcgaa	1980
agaacaccct ctaaatggga aagtattctg tactctttaga tggattctcc actcagttgc	2040

aacttggact tgcctcagc agctggtaat cttgtctgc ttgacaacat ctgagtcgag	2100
ccgtttgaga agaaaacata tattctctc aaaaatgcac ccaactagct ctatgtttac	2160
aatggacat aggactcaa gtttcagaga ccattgaaat gaatccccaa taattgcaga	2220
actaaaactca ttataaaagg taaaataacc ggatatatac atagcatgac atttctttgt	2280
gctttggctt acttggtt	2298

<210> 435
<211> 2308
<212> DNA
<213> Homo sapiens

<400> 435	
gagagactgg atggacccac aagggtgaca gcccaggcg accgatcttc ccatcccaca	60
tccctccggcg cgatgccaa aaggaggctga cggcaactgg gccttctgca gagaaagacc	120
tccgcttcac tgcccccggct ggtcccaagg gtcaggaaga tggattcata cctgctgatg	180
tggggactgc tcacgttcat catggtgccct ggctgccagg cagagctctg tgacgtatgc	240
cggccagaga tcccacacgc cacattcaaa gccatggct acaaggaagg aaccatgttg	300
aactgtgaat gcaagagagg ttcccgaga ataaaaagcg ggtcactcta tatgctctgt	360
acaggaaact ctagccactc gtctggac aaccaatgtc aatgcacaag ctctgccact	420
cggAACACAA cggaaacaagt gacacctcaa cctgaagaac agaaagaaag gaaaaccaca	480
gaaatgcaaa gtccaatgca gccagtgac caagcgagcc ttccaggta ctgcaggaa	540
cctccaccat gggaaaatga agccacagag agaattttatc atttcgtgtt ggggcagatg	600
gttattatc agtgcgtcca gggatacagg gctctacaca gaggtcctgc tgagagcgtc	660
tgcaaaaatga cccacggaa gacaagggtgg acccagecccc agctcatatg cacaggtgaa	720
atggagacca gtcagtttc aggtgaagag aagccctcagg caagccccga aggccgtct	780
gagagtgaga cttctctgcct cgtcacaaca acagatttc aaatacagac agaaaatggct	840
gcaaccatgg agacgtccat atttacaaca gagtaccagg tagcagtggc cggctgttgtt	900
ttcctgtgtca tcagcgtctt cctctgttgtt gggctcacct ggcagcggag acagaggaag	960
agtagaaagaa caatctgaa aacccaaaaga acaagaattt cttggtaaga agccgggaac	1020
agacaacaga agtcatgaa gccaagtggaa atcaaagggtg ctaaatggtc gcccaggaga	1080
catccgttgtt gcttgcctgc gttttggaaag ctctgttgtt acatcacagg acacggggca	1140
gtggcaacct tgcgtctatg ccagctcagt cccatcaggag agcggcgct acccacttct	1200
aaatagcaat ttgcgggtt aagaggaagg gcaaaaccac tagaactctc catcttattt	1260
tcatgtatata gttttttttt aagcatgaaat ggtatggaaat tctctccacc ctatatgttag	1320

tataaaagaaa	atgtgggtta	cattcatctc	attccaaactt	cccagttcg	gagtccccaa	1380
gaaaggcccc	gcactaacgt	aaatacacaa	cacacacact	ctaccctata	caactggaca	1440
tttgtctcggt	ggttcccttc	tcagecgctt	ctgactgctg	attctcccg	tcacgttgcc	1500
taataaaacat	ccttcaagaa	ctctgggctg	ctacccagaa	atcatttac	ccttggctca	1560
atctctctaag	ctaacccttct	tctactgagc	cttcagtctt	gaattttaa	aaaacagagg	1620
ccatggcaga	ataatctttg	ggtaacttca	aaacggggca	gccaaaccca	tgaggcaatg	1680
tcaggaacag	aaggatgaat	gagggtcccag	gcagagaatc	atacttagca	aagtttacc	1740
tgtgcgttac	taattggcct	ctttaagagt	tagtttttt	gggattgcta	tgaatgatac	1800
cctgaaatttgc	gcctgcacta	atttgtgtt	tacaggtgga	cacacaagg	gcaaataat	1860
gcgtacgttgc	cctgagaagt	gtctaaaaac	acaaaaaagg	gatccgtaca	ttcaatgttt	1920
atgcaaggaa	ggaaggaaag	aaggaagtga	agaggaggaa	gggatggagg	tcacactgg	1980
agaacgtAAC	cacggaaaag	agcgcacag	gcctggcact	gtggctcagg	cctataaccc	2040
cagctccctaa	ggagaccaag	gcgggagcat	ctcttgaggc	caggagtttgc	agaccagcct	2100
gggcagcata	gcaagacaca	tccctacaaa	aaatttagaa	ttgggtggat	ttgggtggcat	2160
acgcctgttag	tccttagccac	tcaggaggt	gaggcaggag	attgtgttgc	gcccaggagt	2220
tcggagctgc	agtcaagtcat	gatggcacca	ctgcactcca	gcctggcaa	cagagcaaga	2280
tcctgtcttt	aaggaaaaaa	agacaagg				2308

<210> 436
<211> 696
<212> DNA
<213> Homo sapiens

<400> 436						
ttccccccccc	cccccccccc	ccccgcggca	gcacaggaca	cagctgggtt	ctgaagcttc	60
tgagttctgc	agcctcacct	ctgagaaaac	ctctttcca	ccaataccat	gaagetctgc	120
gtgactgtcc	tgtctctct	catgttagta	gctgccttct	gctctccagc	getctcagca	180
ccaatgggtc	cagaccctcc	caccgcctgc	tgctttttt	acaccgcgag	gaagcttcc	240
cgcaactttgc	tggtagatta	ctatgagacc	agcagcctct	gctcccagcc	agctgtggta	300
ttccaaaccca	aaagaagcaa	gcaagtctgt	gctgatccca	gtgaatccgt	ggtccaggag	360
tacgtgtatg	acctggaaact	gaactgagct	gctcagagac	aggaagtctt	cagggaaagg	420
cacctgagcc	cggtatgttc	tccatgagac	acatctctc	cataactcagg	actccctctcc	480
gcagttctgc	tccctttct	taatttaatc	ttttttatgt	gccgtgttat	tgtatttaggt	540
gtcatttccat	tttatttatat	tagtttagcc	aaaggataag	tgtccatatgg	ggatggtccaa	600

ctgtcaactgt ttctctgctg ttgcaaatac atggataaca catttggatc tgtgtgttt	660
ccataataaa actttaaaat aaaatgcaga cagttt	696
<210> 437	
<211> 116	
<212> DNA	
<213> Homo sapiens	
<400> 437	
gatcagattt ggggggaga aagaagtggg tatcaagggt gatttgaatt ttctgcagca	60
ttaaagtggc gttataaga taagtaataa taaagaattt taacatccat gtcaaa	116
<210> 438	
<211> 3426	
<212> DNA	
<213> Homo sapiens	
<400> 438	
gagcaatgat gtagccacct cctaacccttc ctttcttggaa cccccagggtt ccctcttgc	60
gttggctgca catcaggaag gctgtgtatgg gaatgaaggt gaaaacttgg agatttca	120
tcaagtccatgg ctctctgttgg caagatcatc ctttaaaatggt agagaaggctg ctctgtgtgg	180
tggtaactc caagaggcg aactcgttctt agaaggaaat ggatgcagc agtccgggg	240
cccccaaaacg catgttccct gtgtatctgc ccaggaaagc cttccgtgg gggcccccggc	300
tttgaggatg gccacccgggtt ctggacgcattt ggctgattctt gaatgtatggat ggttcggccgg	360
gggctgttgc cgtggatttc cccgggtggggtt gttttgttgc tgctctctgt ctgtgtatc	420
tctgttctgtt acatgttggc ctgcacccca aaagggtgacg aggaggcagctt ggcactgccc	480
aggggcaaca gccccacggg gaaggaggggg taccaggccg tccttcgggaa gtggggaggag	540
cacgcacccgca actacgttag cggcgttgc cggcagatcg cacagctaa ggaggagctg	600
caggagagga gtgagcagct caggaatggg cagttaccaag ccagcgatgc tgctggccctg	660
ggctctggaca ggagcccccc agagaaaacc caggccgacc tcctggccctt cctgcactcg	720
cagggtggaca aggcagaggtt gaatgttgcgtt gcgttgcgtt ccacagatgtt tgctggccctg	780
ccttcgata gctttactctt acagaagggtt taccagctgg agactggccctt tacccggccac	840
ccccggggaga agcctgttagt gaaggacaag cgggatgtt gggtggaaagc cattgtatca	900
gccttggaga ccctgaacaa tcctgcagag aacagccca atcaccgttcc ttacacggcc	960
tctgatttca tagaaggatgtt ctaccgaaca gaaaggaca aaggacattt gtatgtatc	1020
accttcaaaag gggaccacaa acatgttgc aacgggttca tcttatttcg accatcgcc	1080
cccatcatga aagtggaaaaa tgaaaagtc aacatggcca acacgcttat caatgttatac	1140
gtgcctcttagt caaaaagggtt ggacaagttc cggcagttca tgcagaattt cagggagat	1200

tgcattgagc	aggatggag	agtccatctc	actgttgtt	actttggaa	agaagaata	1260
aatagaagtca	aaggaaatact	tgaaaacact	tccaaagctg	ccaaacttcag	gaactttacc	1320
ttcatccagc	tgaatggaga	attttctcg	ggaaaggac	ttgatgttg	agcccgc	1380
tgaaaggaa	gcaacgtct	tctcttttc	tgtatgtgg	acatctact	cacatctgaa	1440
ttccctaata	cgttaggct	gaatacacag	ccagggaga	aggtat	tttccagttctt	1500
ttcagtca	acaatcctgg	cataatatac	ggccaccatg	atgcagtccc	tcccttgaa	1560
cagcagctgg	tcataaaagaa	ggaaactgga	ttttggagag	actttggatt	tggatgacg	1620
tgtcagtatac	ggtcagactt	catcaata	ggtggtt	atctggat	caaaggctgg	1680
ggcgaggagg	atgtgcac	ttatcgcaag	tatctccaca	gcaacctcat	agtggatcgg	1740
acgcctgtgc	gaggactt	ccacccctgg	catgagaagc	gctgcatgga	cgagctgacc	1800
cccgagcagt	acaagatgt	catgcagtcc	aaggccatg	acgaggatc	ccacggccag	1860
ctgggc	atgc	ttgtgttc	gcacgagata	gaggctc	ttcgcaaaaca	1920
acaagtagca	aaaaaacat	aactcccaga	gaaggattgt	gggagacact	ttttcttcc	1980
ttttgcatt	actgaaagt	gctgcaac	agaaaagact	tccat	aaaagg	2040
aattggact	atgggtcaga	gatgagaa	cctccgattt	ctctctgtt	ggcttttac	2100
aa	aaatctcc	cttgc	aaaagtaacc	cagttgcacc	ctgtgaatgt	2160
tctgacaa	ag	tgatgtt	taagcct	ggtg	tttgc	2220
gtttacaata	cactgagacc	ttttttt	tgtgctcatt	gaaatattca	tgat	tttgc
gcagttttgt	aaaaattca	ttagcatgaa	aggcaagcat	atttctc	atatgat	2340
gccttatc	aggc	tttcttgc	tgctaaata	tcagaaggca	ggagaggaga	2400
taggcttatt	atgatact	tgatgtacatt	aagtaaaata	aatggacca	aaaaagaaaa	2460
gaaaccataa	atatcg	atat	caagattaac	aaaaataat	ctgcttatct	2520
ttttgggtgt	ctttaact	gtctcg	tttttttta	tttaaaaatg	cactttttt	2580
cccttgc	ttatagtct	tttatttaat	taccat	caagc	ccttac	2640
aagttgc	c	at	ttttaag	aagatactt	gagatgcatt	atgagaactt
tca	gatcaaatt	at	ccaaggacat	gccaaatg	ctgtca	2760
ggcactg	at	gtcaggcatt	gagacatagg	gaaggatgg	tttgc	actaa
ca	gatactt	ctctgaa	gaggagcaac	tgaacactgg	aggaaaagaa	2880
aatgacactt	tctgtttac	agaaaaggaa	actcattc	actgg	gtata	2940
ctt	aaaagtc	agaaaccaca	tttctc	agaagt	aggacc	3000

aataaaaccaa	agtataccgt	gtgaacccaa	caatctcttt	tcaaaacagg	gtgctcctcc	3060
tggcttctgg	cttcataag	aagaaatgg	aaaaaatata	tatatatata	tatattatgt	3120
gaaagatcaa	ccatctgcc	agaatctagt	gggatggaa	tttttgcac	atgttatcca	3180
ccccaggcca	ggtggaaagta	actgaattat	ttttaaatt	aagcagttct	actcgatcac	3240
caagatgctt	ctgaaaatttgc	cattttatta	ccatttcaaa	ctattttta	aaaataaata	3300
cagttacat	agagtggttt	cttcattcat	gtaaaattta	ttagccagca	ccagatgcat	3360
gagctaatta	tctctttgag	tccttgcttc	tgtttgctca	cagtaagctc	attgtttaaa	3420
agcttc						3426
<210>	439					
<211>	384					
<212>	DNA					
<213>	Homo sapiens					
<220>						
<221>	misc_feature					
<222>	(144)..(145)					
<223>	n is a, c, g, t or u					
<220>						
<221>	misc_feature					
<222>	(159)..(159)					
<223>	n is a, c, g, t or u					
<220>						
<221>	misc_feature					
<222>	(165)..(165)					
<223>	n is a, c, g, t or u					
<220>						
<221>	misc_feature					
<222>	(223)..(223)					
<223>	n is a, c, g, t or u					
<220>						
<221>	misc_feature					
<222>	(309)..(309)					
<223>	n is a, c, g, t or u					
<400>	439					
tttttttttt	tttttttttc	tcgaagatca	gtactttatt	ttctcttagct	ccagtgtttt	60
gcaactgttag	cagcatatca	gaaacatccc	cacacaaaaa	cacacaattc	tccctttctt	120
caaagagctg	gcaacaatttgc	agannccgaa	acaatagtna	ctacnggcat	ttgagaaatt	180
taagaataaa	cacttgctca	cccttggaaac	atacattgtg	cgncttgag	gtcgaaagca	240
gcagtagcatt	tgtcattcaa	agacacaatc	atccttaat	aaagttaat	aaaaccttat	300
tggcataana	accgcgttgg	agatgcagct	ttatcgggga	ctttgggagg	aagggtgcttg	360

gaataagaca tgtagcatttt aaaa

384

<210> 440
<211> 2545
<212> DNA
<213> Homo sapiens

<400> 440
atccaaataca ggagtgactt ggaactccat tctatcacta tgaagaaaaaagg tggtgttctt 60
ttccctcttg gcatcatctt gctgggtctg attggagtgac aaggAACCCC agtagtgaga 120
aagggtcgct gtccctgcata cagcaccaac caaggacta tccacctaca atcctgaaa 180
gacccttaaac aatttgcggcc aaggcccttc tgcgagaaaa ttgaaatcat tgctacactg 240
aagaatggag ttcaaacatg tctaaacccca gattcagcag atgtgaagga actgattaaa 300
aagtgggaga aacaggtcag cccaaagaaa aagccaaaga atggaaaaaa acatccaaaa 360
aagaagttc tggaaagttcg aaaaatctca cgttctegtc aaaagaagac tacataagag 420
accacccatc caataagtat tctgtgttca aaatgttcta tttaatttat accgctatca 480
ttccaaagga ggatggcata taatacacaag gcttattat ttgactagaa aattttaaac 540
attactctga aattgttaact aaagttgaa agttgattt aagaatccaa acgttaagaa 600
ttgtttaaagg ctatgattgt ctgggttctt ctaccacccca ccaggttaat ttcatcatgc 660
ttaaggccat gattttagca atacccatgt ctacacagat gttcacccca ccacatccca 720
ctcacacaac ctgcctggaa gagcagcccc aggcttccac gtactgcagc ctccagagag 780
tatctgaggg acatgtcagc aagtcctaag cctgttagca tgctggtagc ccaagcgtt 840
tggaaatttag ctggacccatca ccaagctgct gtggccatca acctctgtat ttgaatcagc 900
ctacaggcc cacacacaat gtgtctgaga gattcatgtt gattgttatt gggatcacc 960
actggagatc accagtggtt ggctttcaga gcctccttgc tggcttggaa agccatgtga 1020
ttccatcttgc cccgctcagg ctgaccactt tattttttt tggcccttgc ttcatcttgc 1080
aagtctgc ttctccatcc tacacacaatg cagtgccctt ctctctcca gtgcacccgtt 1140
catatgtctt gatttatctg agtcaactcc ttctctcatct tgcccccac accccacaga 1200
agtgttttctt ctcccaattt catctcaact cagtcctgat tagttcaagt cctgcctt 1260
aaataaaacct ttttggacac acaaattatc ttaaaactcc tggccattt ggttcagttac 1320
cacatgggtg aacactcaat ggttaactaa ttcttgggtg tttatccatctt ctcccaacc 1380
agattgtcag ctcccttgagg gcaagagccaa cagttatattt ccctgtttctt tccacagtg 1440
ctaataatac tggaaacta ggttttaata attttttaat tggatgttggat atggccagga 1500
tggcaaccag accattgtctt cagagcagggt gctggcttccatgttgg 1560

ctagcctctg	gtaacacctt	acttattatc	ttcaggacac	tcactacagg	gaccaggat	1620
gatgcacat	ccttgcttt	ttatgacagg	atgtttgtc	agcttctcca	acaataaga	1680
gcacgtgtta	aaacacttgc	ggatattctg	gactgtttt	aaaaaatata	cagtttacg	1740
aaaatcatat	aatcttacaa	tgaaaaggac	tttagatgc	agccagtgc	caacctttc	1800
ccaaaccatac	aaaaattctt	tttccgaaag	gaaaaggct	ttctcaataa	gcctcagctt	1860
tctaaagatct	acaagatag	ccaccgagat	ccttacatcg	actcatttt	ggcaaataatg	1920
agttttattt	tccgtttact	tgtttcagag	tttgtattgt	gattatcaat	taccacacca	1980
tctcccattga	agaaaggaa	cggtgaagta	ctaagcgcta	gaggaagcag	ccaagtcgg	2040
tagtggaaagc	atgattgggt	cccgatggc	ctctgcagg	tgtggaaacc	tccttccagg	2100
ggaggttcag	tgaatttgt	aggagaggtt	gtctgtggcc	agaatttaaa	cctatactca	2160
ctttcccaa	ttgaatca	ctcacactg	ctgtatgattt	agagtgtgt	ccgggtggaga	2220
tcccacccga	acgtcttatac	taatcatgaa	actccctagt	tccttcatgt	aacttccctg	2280
aaaaatctaa	gtgtttcata	aatttgagag	tctgtgaccc	acttacctt	catctcacag	2340
gtagacagta	tataactaac	aaccaaagac	tacatattgt	caactgacaca	cacgttataa	2400
tcatatatac	tatatacata	tacatgcata	cactctcaa	gcaaataatt	tttcaactca	2460
aaacagtatt	gacttgtata	ccttgttaatt	tgaaatattt	tctttgttaa	aatagaatgg	2520
tatcaataaa	tagaccatta	atcag				2545

<210> 441
<211> 1172
<212> DNA
<213> Homo sapiens

<400> 441	gagacattcc	tcaattgctt	agacatattc	tgagcctaca	gcagaggaac	ctccagtctc	60
	agcaccatga	atcaaactgc	gattctgatt	tgctgcctta	tctttctgac	tctaagtggc	120
	attcaaggag	tacctctctc	tagaaccgta	cgctgtacct	gcatcagcat	tagtaatcaa	180
	cctgttaatc	caaggctttt	agaaaaactt	gaaattattc	ctgcaagcca	attttgtcca	240
	cgtgttggaa	tcattgtcac	aatggaaaag	aagggtgaga	agagatgtct	gaatccagaa	300
	tcgaaggcca	tcaagaattt	actgaaagca	gttagcaagg	aatgtctaa	aagatctct	360
	taaaaccaga	ggggagcaaa	atcgatgcag	tgcttccaag	gatggaccac	acagaggctg	420
	cctctccat	cacttcccta	catggagtt	atgtcaagcc	ataattgttc	tttagttgca	480
	gttacactaa	aaggtgacca	atgatggta	ccaaatcagc	tgctactact	cctgttaggaa	540
	ggttaatgtt	catcatceta	agctattcag	taataactct	accctggcac	tataatgtaa	600

gctctactga ggtgtatgt tcttagtgga tggcttgacc ctgcttcaaata accccccata cttccaagg gtactaaagga atcttcctgc ttggggttt atcagaattc	660
tcagaatctc aaataactaa aaggatgc acaaatactg cttttaaag aatgtcttt	720
acttcatggc cttccactgc catcccccaggggccaa attcttcag tggctaccta	780
catacaattc caaacacata caggaaggtt gaaatatctg aaaatgtatg tgtaagtatt	840
cttattttat gaaagactgt acaaagtata agtcttagat gtatataattt cttatattgt	900
tttcagtgtt catggataaa catgtatattt agtactatgt atcaatgagt aacaggaaaa	960
ttttaaaat acagatagat atatgtctgc catgttcat aagataaatg tgctgaatgg	1020
ttttcaataaaa aaaaatgggtt actctcttgg aatattaaag aaagactatc taaaatgttga	1080
aagatcaaaa ggttaataaa gtaattataa ct	1140
	1172

<210> 442
<211> 1859
<212> DNA
<213> Homo sapiens

<400> 442 gcaggcacaa actcatccat ccccagttga ttggaaagaaa caacgatgac tcctggaaag	60
acctcattgg tgcactgtc actgtgtctg agcctggagg ccatagtgaa ggcaggaaatc	120
acaatcccac gaaatccagg atgccccaaat tctgaggaca agaacttccc ccggactgtg	180
atggtaacc tgaacatcca taaccggaaat accaataccca atccccaaag gtcctcagat	240
tactacaacc gatccaccc accttggaaat ctccaccgcg atgaggaccc tgagagat	300
ccctctgtga tctggggaggc aaagtgcgcg cacttgggt gcataaacgc tgatggaaac	360
gtggactacc acatgaactc tgccccatc cagcaagaga tcctggtct gcgcaggag	420
cctccacact gccccaaactc ctccggctg gagaagatac tggtgtccgt gggctgcacc	480
tgtgtcaccc cgattgttcca ccatgtggcc taagagctct ggggagccca cactccccaa	540
agcagttaga ctatggagag cgcggccagc ccctcaggaa ccctcatct tc当地agacag	600
cctcatttcg gactaaactc attagagttc ttaaggcagt ttgttcaatt aaagcttcag	660
aggttaacact tggccaagat atgagatctg aattacccctt cccttttcc aagaagggaaag	720
gtttgactga gtaccaattt gtttttttttta agggctttaa gttttttatgt	780
tatattttat gcccgttgc aactttgggg tataagatcc cattttatgt aattacccatc	840
tttatattttt tttgttttttta aagaagata agattctggg cttggaaatt ttatatttttta	900
aaaggttaaaa cctgttattta tttgagctat ttaaggatctt atttatgtttt aagtatttttag	960
aaaaaggtga aaaagcacta ttatcagttc tgccttagtta aatgttaagat agaattaaat	1020

ggcagtgc aaatttctgag tctttacaac atacggat atgatttc cctctttgtt 1080
 tttaaaaggt ataacatggc tgaaaagaaa gattaacct actttcatat gtattaattt 1140
 aaattttgca atttggtag gttttacaag agatacaga agtctaactc tctgttccat 1200
 taaaccctta taataaaaatc cttctgtat aataaaaggtt caaaagaaaa tgtttatttg 1260
 ttctcattaa atgtatTTTt gcaaactcg ctcttcctt ttgggaagag ttatgcaaat 1320
 tctcctataa gcaaaccaaa gcatgtctt gagtaacaat gacctggaaa tacccaaat 1380
 tccaaggttc cgatttcaca tgccttcaag actgaacacc gactaaaggtt ttcatatat 1440
 tagccaatgc tgtagacaga agcatTTTt taggaataga gcaaataaga taatggccct 1500
 gaggaaatggc atgtcattat taaagatcat atggggaaa tgaaccctcc cccaaataac 1560
 aagaaggttc gggaggagac attgtcttca gactacaatg tccagttctt cccctagact 1620
 caggcttctt ttggagatTTTt aggcccctca gagatcaaca gaccaacatt tttcttcc 1680
 tcaagcaaca ctccctaggc ctggcttctg tctgtatca gCACCCACACA acccagaaag 1740
 gagctgtatgg ggcagaacga actttaaatgt tgagaaaagg tcagcccaag taaaataaaa 1800
 actcaatcac attcaattcc agagtagttt caagtttac atcgtaacca tttcgccc 1859

<210> 443
 <211> 1496
 <212> DNA
 <213> Homo sapiens

<400> 443
 gactccgggt ggcaggcgcc cgggggaatc ccagctgact cgctcaactgc ctgcgaagtc 60
 cggcgcccc cgggaggagaa ctgggtggcc gcaccctccc ggctgcggtg gctgtcgccc 120
 cccacccctgc agccaggact cgatggagaa tccattccaa tatatggcca tgtggcttctt 180
 tggagcaatg ttccatcatg ttccatgtctg ctgctgacgt cacatggagc acagaatca 240
 atgttagcag atagccagcc catacaagat cgtattgtat tgtaggaggc atcgtggatg 300
 gatggctgttgc gggaaaccctt tgccatagcc agctttctt caatactaa ggatttaccg 360
 tggctttagt taatgagaat ttcaaaacca catttgagaa gtatTTTcat ccagtgcatac 420
 ttgtgtttac ttctaaacag tcattttcta actgaagctg gcattcatgt ctccatTTTt 480
 ggctgttca gtgcagggtc tcctaaaaca gaagccaaact gggtaatgt aataagtgtat 540
 ttgaaaaaaaa ttgaagatct tattcaatct atgcattttt atgcatactt atatacggaa 600
 agtgtatgttc accccagttg caaagtaaca gcaatgaagt gctttctt gggatcacaa 660
 gtatTTTcat tttagtccgg agatgcaagt attcatgata cagtagaaaa tctgtatcatc 720
 ctagcaaaaca acagtttgc ttctaaatggg aatgtaacag aatctggatg caaagaatgt 780

gaggaactgg	aggaaaaaaaaa	tattaaagaa	ttttgcaga	gttttgtaca	tattgtccaa	840
atgttcatca	acacttcttg	attgcatttg	attctttta	aagtgtttct	gttattaaca	900
aacatcactc	tgctgttag	acataacaaa	acactcgca	tttcaaatgt	gctgtcaaaa	960
caagtttttc	tgtcaagaag	atgatcagac	cttggatcg	atgaactctt	agaaatgaag	1020
gcagaaaaat	gtcattgagt	aatatagtga	ctatgaacct	ctctcagact	tactttactc	1080
attttttaa	tttattattt	aaattgtaca	tatttgcgaa	ataatgtaaa	atgttgaata	1140
aaaatatgt	caagtgttgt	tttttaagtt	gcactgatat	tttacctctt	attgcaaaaat	1200
agcatttgg	taagggtgat	agtcaaattt	tgtattgggt	gggctgggt	ccaatgctgc	1260
aggtaacac	ctatgtgtt	aggctctgc	cagtgtggaa	ccactgacta	ctggctctca	1320
ttgacttcct	tactaagcat	agcaaacaga	ggaagaattt	gttacgtgt	agaaaaagaa	1380
gaactatata	tgaatcctct	tctttatact	gtatattgt	tattgtgt	taaagcaact	1440
gttatgaaat	aaagaaattt	caataactgg	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1496

<210> 444
<211> 1629
<212> DNA
<213> Homo sapiens

<400> 444						
acacatcagg	ggcttgcct	tgcaaaaacca	aaccacaaga	cagacttgca	aaagaaggca	60
tgcacagctc	agcaactgctc	tgttgcctgg	tcctcctgac	tggggtgagg	gccagccccag	120
gccaggcac	ccagtcgtag	aacagtcga	cccacttccc	aggcaacctg	cctaacatgc	180
ttcgagatct	ccgagatgcc	ttagcagcag	tgaagacttt	ctttcaatg	aaggatcagc	240
tggacaactt	gttgttaaag	gagtccttgc	tggaggactt	taagggttac	ctgggttgec	300
aaggccttgc	tgagatgtac	cagtttacc	tggaggaggt	gatccccaa	gtcgagaacc	360
aagacccaga	catcaaggcg	catgtgaact	ccctggggaa	gaacctgtaa	accctcaggg	420
tggggctacg	gctgtgtcat	cgatttcttc	cctgtaaaa	caagagcaag	gccgtggagc	480
aggtaagaa	tgccttaat	aagctccaag	agaaaggcat	ctacaagcc	atgagtgtgt	540
ttgacatctt	catcaactac	atagaaggct	acatgacaat	gaagatacg	aactgagaca	600
tcagggtggc	gactctata	actctaggac	ataaatttga	ggtctccaaa	atcggatctg	660
gggctctggg	atagctgacc	cagccccctt	agaaacccctt	ttgtacactt	cttataagaat	720
atttattacc	tctgtatcc	caaccccat	tcttatttt	ttactgagct	tctctgtgaa	780
cgattttagaa	agaagccaa	tattataatt	ttttcaata	tttattttt	tcacctgttt	840
ttaagctgtt	tccataggg	gacacactat	ggtatttgag	tgttttaaga	taaattataaa	900

gttatacaag ggaggaaaaaa aaatgttctt tggggagcca acagaagctt ccattccaaag	960
cctgaccacg ctttcttagt gttgagctgt ttccctgac ctccctctaa ttatcttg	1020
ctctggcgtt ggggttcct aactgctaca aatactctta ggaagagaaa ccagggagcc	1080
cctttgatga ttaattcacc ttccagtgtc tcggagggt tcccctaacc tcattcccc	1140
accacttcat tcttggaaacg tggccagc ttgttattta taacaaccta aatttggttc	1200
taggcgggc gcgggtggtc acgcctgtaa tcccagact ttgggaggct gaggcggtgt	1260
gatcaacttga ggtcaggagt tcctaaaccag cctggtaacat atggtaaac cccgtctcta	1320
ctaaaaatac aaaaatttgc cggcatgtt ggccgcacc tgtaatccca gctacttggg	1380
aggctgaggc aagagaatttgc ttgtaaacca ggagatggaa gttgcagtga gctgatatac	1440
tgccttgcata ctccagcctg ggtgacagag caagactctg tctaaaaaaa taaaataaa	1500
aataatattt gttctaatacg aactcagttt taactagaat ttattcaattt cctctggaa	1560
tgttacatttgg tttgtctgtc ttcatagcag attttatattt tgaataaata aatgttatctt	1620
attcacatc	1629

<210> 445
<211> 1193
<212> DNA
<213> Homo sapiens

<400> 445	
tgaagatcg ctattagaag agaaagatca gttaaagtcc ttggacctga tcagcttgat	60
acaagaacta ctgatttcaa cttctttggc ttaattctct cgaaacgtt gaaatataca	120
atttatatct tggctttca gctctgcattt gttttgggtt ctcttggctg ttactgccag	180
gaccatatcg taaaagaagc agaaaacctt aagaaatattt ttaatgcagg tcattcagat	240
gtagcggata atggaactct tttcttaggc attttgaaga atggaaaga ggagagtgc	300
agaaaaataaa tgccatagccaa aattgtctcc ttttacttca aactttttaaa aaactttaaa	360
gtgaccaga gcatccaaaa gagtgtggag accatcaagg aagacatgaa tgtcaagttt	420
ttcaatagca acaaaaagaa acgagatgac ttccaaaagc tgactaatta ttccgttaact	480
gacttgaatg tccaaacgcaaa agcaatacat gaactcatcc aagtgtggc tgaactgtcg	540
ccagcagctt aaacaggaa gcgaaaaagg agtcagatgc tgtttcaagg tgcaggagca	600
tccctgtat ggttgtccctg cctgcaatat ttgaatttttta aatctaaatc tattttat	660
tatttatcat tatttatatg gggatataat ttttagactc atcaatcaaa taatgtttaa	720
taatagcaac ttttgtgtaa tgaaaatgaa tatctattaa tataatgttattt atttataatt	780
cctatataatcct gtgactgtct cacttaatcc ttgttttctt gactaattt gcaaggctat	840

gtgattacaa ggctttatct cagggccaa ctggcagcc aacctaagca agatcccatt	900
ggtttgtgtt ttatctact tggatgataca atgaacactt ataagtgaag tgatactatc	960
cagttactgc cggttgaaa atatgcctgc aatctgagcc agtgcattaa tggcatgtca	1020
gacagaacctt gaatgtgtca ggtgaccctg atgaaaacat agcatctcg gagatttcat	1080
gcctgggtct tccaaatatt gttgacaact gtgactgtac ccaaattggaa agtaactcat	1140
ttgtttaaat tatcaatatc taatatataat gaataaaagtg taagttcaca act	1193

<210> 446
<211> 1182
<212> DNA
<213> Homo sapiens

<400> 446	
tagtttcggcc ttgagtggagac ttgcctgttt ctctggcccc tggtcctgtc ctgttctcca	60
gcattgggtgt tctgaagctc cctggaggct cctgcattgc acgcgtgaca gtgacactga	120
tgggtctgtat cttcccaactg gctttggctg gggacaccccg accacgtttc ttgtggcagc	180
ttaagtttga atgttatttc ttcaatggga cggagcgggt gcggttgcgt gaaagatgca	240
tctataacca agaggaggcc gtgcgttcc acagegcacgt gggggagtac cgggggggtga	300
cgaggactggg gccgcctgtat gccgactact ggaacagcca gaaggacccctc ctggcagcaga	360
ggcgccgcgc ggtggacacc tactgcacac acaactacgg ggttggtag agcttcacag	420
tgcagcgccg agttgagctt aaggtgactg tggatcccttc aaagaccccg cccctgcacgc	480
accacaacctt cctggctgtc tctgtgtatgt gtttctatcc aggacgattt gaagtcaggat	540
ggttccggaa cggccaggaa gagaaggctg ggttgggtgc cacaggccctg atccagaatg	600
gagattggac cttccagacc ctgggtatgc tggaaacagt tcttcggagt ggagagggtt	660
acacactgcac agtggaggcac ccaagtgtga cgagccctct cacagtggaa tggagagcac	720
ggtctgaatc tgacacagacc aagatgtgtatgc gtggagtccg gggcttcgtc ctggcctgc	780
tcttccttgg ggccgggctg ttcatctact tcaggaatca gaaaggacac tctggacttc	840
agccaaacagg attccctgacat tggaaatgcg atgaccacat tcaaggaaga accttctgtc	900
ccagctttgc agaatgaaaa gtttctgc ttggcagttt ttcttcacaca agagagggtt	960
ttctcaggac ctgggtgtatgc ctgggtccgc aactgcacaa aatgtcccttc cttgtggctt	1020
cctcagctcc tggcccttggc ctggaaatgcg acgttgcgtt acagccctctc atcttcaact	1080
ttttgtgtcc ctttgcata aaccgtatgg cttccctgc atctgtactc accctgtacg	1140
acaaacacat tacatttata aatgtttctc aaagatggag tt	1182

<210> 447

<211> 1410
<212> DNA
<213> Homo sapiens

<400> 447
gcgactgtct ccggcgagcc cccggggcca ggtgtcccg ggcgcgccacg atgcggccgc 60
ggctgtggct cctctggcc gcgcagctga cagttctcca tggcaactca tcctccagc 120
agacccttcg atacataaaag gtgcaaacc acaagatggt gatgtgtcc tgcgaggcta 180
aaatctccct cagtaacatg cgcatctact ggctgagaca ggcgcaggca ccgagcagtg 240
acagtccaca cgaggctctg gccctctggg attccgc当地 agggactatc cacggtaag 300
agggtggaaaca ggagaagata gctgtgttcc gggatgcaag ccgggttcatt ctcaatctca 360
caaggctgaa gccggaaagac agtggcatct acttctgtcat gatcgtcgcc agcccccggc 420
tgacccctcg gaagggaaact cagctgatgt tggttgatcc cttccccacc actgcccggc 480
ccaccaagaa gtccacccctc aagaagagag tggtccggg acccaggcca gagaccaggaa 540
agggcccaact tttagcccc atcacccctg gcctgtcggt ggctggcgcc ctgggtctgc 600
tggttccct gggagtgccc atccacctgt gtcggccggc gaggagagcc cggcttcgtt 660
tcatgaaaca atttacaaa tgagcagaga atacgggtttt gggtccctgc tacaaaaaga 720
catcggtcg taacgagcac gatgtggaaa aatgagagaa gggacacatt caaccctggaa 780
gagttcaatg gctgtgaag ctgcctgtt ttcaactgtc caaggccctt ctgtgtgtga 840
tgtgtatggg agcaacttgt tcgtgggtca tcgggaaatac tagggagaag gtttcatggc 900
ccccaggcga cttcacagag tggtgtggag gactgatgtt gaaatgtgc ccatgccacc 960
gttccggct cctgtgttt ccctgaactg ggacccctt tagtgcccat ttagccacca 1020
tctttgcagg ttgctttgc ctggtagggc agtaacattt ggctctggg ctttcatggg 1080
gtgtatgtgg gctggctccc tcttggctt cccaggctgg ggctgacccctt cctcgccaggag 1140
agggcagggtg cagggtggga atgaggctt ctggaggggg ctgtccaggcccacaaaggc 1200
atatcagtct ctgagggtt cttttggggc cggaaacttgg cgggttttag gataggatgtt 1260
cacttcatct tctcagctcc catttctact cttaagttt tcaagctccca tttctactct 1320
cccatggctt aatgcttctt tctttctg ttgttttat acaaatgtct tagttgtaca 1380
ataaaagtcc caggtaaag ataaaaaaaaa 1440

<210> 448
<211> 3084
<212> DNA
<213> *Homo sapiens*

<400> 448
ctgggctctt ggttgcagag ctccaaqtcc tcacacagat acacctatTTT gagaaggacc 60

gggcaagaaa gacgcgaagcc cagaggccc gccatttctg tgggtcagg tccctactgg	120
ctcaggcccc tgcctccctc ggcaaggcca caatgaaccg gggagtccct tttaggcact	180
tgcttctggt gctgcaactg gcgctctcc cagcagccac tcagggaaag aaagtggtc	240
tggcaaaaaa agggataca gtggactga cctgtacagc ttcccagaag aagagcatac	300
aattccactg gaaaaactcc aaccagataa agattctggg aaatcagggc tccttcttaa	360
ctaaaggctc atccaagctg aatgatcgcg ctgactcaag aagaagcctt tgggaccaag	420
gaaaactttcc cctgatcatc aagaatcta agatagaaga ctcagatact tacatctgtg	480
aagtggagga ccagaaggag gaggtgcaat tgctagtgtt cggttact gccaactctg	540
acacccacct gcttcagggg cagagcctga ccctgacctt ggagagccccc cctggtagta	600
gccccctcagt gcaatgttagg agtccaagggtt gtaaaaaatc acaggggggg aagaccctct	660
ccgtgtctca gctggagctc caggatgtg gcacctggac atgcactgtc ttgcagaacc	720
agaagaagggtt ggagttcaaa atagacatcg tgggtcttagc ttccagaag gcctccagca	780
tagtctataa gaaagagggg gaacagggtgg agttctcctt cccactcgcc ttacagttg	840
aaaagctgac gggcagtggc gagctgtggt ggcaggcggaa gagggttcc tcctccaagt	900
cttggatcac ctttgacctg aagaacaagg aagtgtctgtt aaaacgggtt acccaggacc	960
ctaagctcca gatggcaag aagctcccgcc tcacacccac cctgccccag gccttgcctc	1020
agtatgtgg ctctggaaac ctcacccctgg cccttgaagc gaaaacagga aagttgcatac	1080
aggaagtgaa cctgggtgtg atgagagcca ctcagctcca gaaaaatttg acctgtgggg	1140
tgtggggacc cacctccccct aagctgtatgc tgagcttggaa actggagaac aaggaggcaa	1200
aggtctcgaa gggggagaag ggggtgtggg tgctgaaccc tgaggcgggg atgtggcagt	1260
gtctgtcgatg tgactcggga cagggtctgc tggaaatccaa catcaaggtt ctgccccat	1320
ggtccacccccc ggtgcagcca atggccctga ttgtgtggg gggcgctgcc ggccttgc	1380
ttttcatgg gctaggcatc ttcttctgtg tcaggtgcgg gcacccgaagg cgccaagcag	1440
agcgatgtc tcagatcaag agactccctca gtgagaagaa gacctggccag tgccctcacc	1500
ggtttcagaa gacatgtatc cccatggatgc gcaacggggcc aggagatcc cacttgcagc	1560
ctccccccatgt gtctggcccg ctttctctgc ctgcggacca gatgaatgtt gcaatccca	1620
ggcccttgc cttctgttcg cttctcttac aatttgcattt tgtttctctt gggtagggcc	1680
ccggccatccatc tgggttggatgt tgctctcta gttccagag gcttaatcac acctgtctcc	1740
acgcatttc cttttccctc aagcttagcc cttctctcat tatttctctc tgaccctctc	1800
cccaactgttc atttggatcc cagggggatgtt tcagggccca gcccggctg gcatggaggg	1860

tggaggctgg	tgtctggaa	catggagcat	gggactgttc	tttacaaga	caggaccctg	1920
ggaccacaga	ggcaggagc	ttgcacgaa	tcacacagcc	aagccagtca	aggatggatg	1980
cgatccaga	ggttctggc	agccagtacc	tcctgcccc	tgctggccg	ttctcaccc	2040
atgtgggtg	ggccacagac	tcacatcctg	accttgaca	aacagccc	ctggacacag	2100
ccccatgtac	acggcctca	gggatgtctc	acatcctctg	tctatttgag	acttagaaaa	2160
atcttacaag	gctggcagt	acagaactaa	gatgatcatc	tccagttat	agaccagaac	2220
cagagctcg	agaggctaga	tgattgatta	ccaagtgccg	gactagcaag	tgctggagtc	2280
gggactaacc	cagggtccct	gtcccaagtt	ccactgctgc	ctcttgaatg	cagggacaaa	2340
tgccacacgg	ctctcaccag	tggctagtgg	tgggtactca	atgtgtactt	ttgggttcac	2400
agaagcacag	cacccatggg	aagggtccat	ctcagagaat	ttacgagcag	ggatgaaggc	2460
ctccctgtct	aaaatccctc	cttcatcccc	cgctggtggc	agaatctgtt	accagaggac	2520
aaagccttgc	gctcttcaa	tcaagtgca	agctgggagc	acaggcactg	caggagagaa	2580
tgcccaagtga	ccagtcactg	accctgtca	gaacctccctg	gaagcgagct	ttgctggag	2640
agggggtagc	tagcctgaga	gggaaccctc	caaggacac	caaaggtat	tgtgccaggc	2700
tctgcgcctg	ccccacaccc	tccttaccc	tcctccagac	cattcaggac	acaggaaat	2760
cagggttaca	aatcttcttg	atccacttct	ctcaggatcc	cctctttcc	tacccttcct	2820
caccacttcc	ctcagtcaca	actccttttc	cctatttcct	tctcctctg	tctttaaagc	2880
ctgccttc	caggaagacc	cccttattgc	tgctgggct	cccccattgc	ttactttgca	2940
tttgtgcccc	ctctccaccc	ctgtcccc	gagctgaaat	aaaaatacaa	taaacttact	3000
ataaagataa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	3060
aaaaaaaaaa	aaaaaaaaaa	aaaa				3084

<210> 449

<211> 1670

<212> DNA

<213> Homo sapiens

<400> 449

ccaaccacaa	gcaccaaagc	agagggcag	gcagcacacc	acccagcagc	cagagcacca	60
gcccagccat	ggtctttag	gtgagtgacc	accaagtgt	aatgacgcc	gaggttggcg	120
ccctcctgga	gaacttcagc	tcttctatg	actatggaga	aaacgagat	gactcgtgt	180
gtacctcccc	gcccgtcca	caggacttca	gcctgaactt	cgaccggcc	ttcttgccag	240
ccctctacag	cctctctttt	ctgctggggc	tgctggcaa	cgcgcggtg	gcagccgtgc	300
tgctgagccg	gccccacaccc	ctgagcagca	ccgacaccc	cctgtccac	ctagctgtag	360

<210> 450
<211> 322
<212> DNA
<213> *Homo sapiens*

```
<400> 450
aatataagga ctccatgg tgcagggtg gattcgtggt gctaaactat gttatgtggg   60
tgtgggggcc gagggggggg ttgtgtctg cagcggtgg ccgccttaat gatctatagg 120
taaactctaa tggcttcgcg aggggggtca gtggggagga caagagctt gggctcttg 180
gtcgagtgtat ctgggggaca ctcaagcggt ttgtttctgt agaaatggga atcttaaggc 240
ctctctggaa aggggtgtgag ggggtcgagg gggagccccq cccqqqqctt ttqgccttca 300
```

```

<210> 451
<211> 568
<212> DNA
<213> Homo sapiens

<400> 451
ttttttttt cagtctattc cccctgtctg gaaggccctt catcctactc tcttgccctc 60
ttctaatttt tttagtggaa gtccaaagta ctcataaaca cattcattaa aaatgtaaaga 120
agccaaaggg caaaaaaaaaa atttttttta atcagggtat aggaggaaag ctaagaattt 180
taaaaatagta aataaaaaat tttagaaatat gtattttgta gaaaatagta gacttagcac 240
taaagatgaaa tggtttttgtt aaagttttta atttggagt tttgtgttatttcccttacc 300
cttcaggaca attcacagat atcaatcctt tctggagttt ccctgtactc cctcaacacc 360
ccaaaaactct aatacgccacg gtcatctgtt tctatataa cctttttaaca tattttatggc 420
caggcgtgtt ggctcatgcc ttgtatccca gcactttggg aggccaaggc aggagtcaact 480
gcgcctggcc aattttcata ttttttagtag agacgggggtt ttaccatgtt gccacacgtg 540
gtctcgaaact cttagatctca agtgatct 568

<210> 452
<211> 1103
<212> DNA
<213> Homo sapiens

<400> 452
cacagagccc gggccgcagg cacctctcg ccagcttcc cgctctctc acagccgc 60
ccacccgcctg ctgagccccca tggccgcgc tgctctctcc gcccgc 120
gtctctcgatgttggactgc tgctctctgtt cctggtagcc gctggccgc ggcgcagg 180
ggcgtccctgtt ggcactgaac tgcgtctccca gtgttgcagg accctgcagg 240
gaattcaccc 300
caagaacatc caaagtgtga acgtgaagtc ccccgaccc cactgcgc 360
aaacccgaagt atatccaca ctcaagaatg ggccggaaagc ttgcctcaat cctgcaccc 420
ccatgtttaa 480
aaaaatcatc gaaaatgtc tgaacagtga caaatccaaac tgaccagaag ggaggaggaa
ctcactgtt ggctgttctt gaaggaggcc ctggcccttat aggaacagaa gaggaaagag
gacacacgtt gcagaggccca cctggattgtt gcctaatgtt tttgacatc gcttggaga 540
gtcttctat ttatattttt attcattatgtt tttgaagatt ctatgttaat attttaggtt 600
aaaataattt aagggtatga ttaactctac ctgcacactgt tcctattata ttcatctttt 660
tggaaatgtc aaccctaaatg tagttcaatc tggattcata tttaatttga aggttagatg 720
tttcaatgtt ctctccatgtt attatgtttaa tatttcttqaa qaqcttqaa catggccatcc 780

```

<210> 453
<211> 4156
<212> DNA
<213> *Homo sapiens*

<400> 453
gttatttgta cttgtcgccc caegggcccc gatgttgtgg ctgcccgggg gagatggctg 60
aggccgaagg gggtttccacg acccccaggcc cggcttcggg gtgcactttc agggggccccc 120
gagatgtgtc aggtcttgg gacggggacc agcagggttga ggcggccggc cggggccctgg 180
tggaggtgtc ggggccttac gaggctctgc tgagtcgggt gcaggcagcc ctgggtgtggg 240
agcggccacgc taggagcgct ctgtggtgcc tggggctgaa cgccggcttc ttgttgagaga 300
actggaccct cggaaaccct ccggatcccg aattcgttgg ttccctctttagg gctctacttc 360
tcgectgccc tgttttcttc gctgcactgg ctcccttcctg tacttgccta attttgcttc 420
accccttccc actccatccc gcctgcaggc ttccggcaccc tagttcttcc cagggccgtc 480
caccatctt ctctgcctta cctgtggcccg caccggccccc ccgcacatctt ggcgggagct 540
tctggtaaca tcttgagccg ctcagatgt agcgagggtc cctcttttga gccccacaaa 600
gctgcgtccc tttaaagcca tcacttcctt tctcttgcgt gctcaagtgc aagttctaga 660
ttgtttccag aggttttagt agtttattgt tggagtagag gctgtgaatgc ttgcaaaggt 720
ttttgcctt gacatctttt cgtcttgttgc ttttacttgc atttggcttgc atgatctttt 780
tgtgtattga tcaatggaaag aaaaaatctt ggcctggaaat aaaagctggg gctttgtgc 840
ccctcggttgc ctcagctgc ccggatcttgc ccacatgtt gctgaatgtt gggtagttgg 900
gaccattttc ataaggaatg ttttgcctttt caaaaagcaa aacccaggca agttctgtt 960
gctgagctgtt gggatactga cttttttggc tgtcttggc cgctacgttgc ttgggtttctt 1020
gctgtcttac ttgtatgttgc tcaactgtcat gatgtggccc cttgtgttgc accaccgtt 1080
gtgggatega gcatatgtgc ggctgaagcc agctctgcag cggcttagact tcagtgccg 1140
tggctacatg atgtccaaagc agagagagag acaattacgc cgcagatctt tccaccacaga 1200
acqaqccatq qacaaccacaca qtqacacqca aqaaqqaqctt qctqccttctt qtcctcaqct 1260

ggacgattct actgttgcga gggaaattggc catcacagac tctgagact cagacgctga 1320
agtctcctgt acagacaatg gcacattca tctttcaagg ggccaaacac ctctaacggg 1380
aggctctgaa gaccttagatg gtacacgtga tccagaggaa tcctttgcga gagaccttc 1440
agacttccc tccattaata tggatcctgc tggcctggat gatgaggacg acactagcat 1500
tggcatgcc agcttgatgt accgttctcc gccaggggct gaggagcccc aggccccacc 1560
tgcgcagccgg gacgaggctg cgctgcgggaa gctcctgtt ggtgtcttc ctgttaggatc 1620
caacctcacc agcaacccttgc ccagcctggt ctcccagggat atgattcagc tggccttgc 1680
aggggcctcc caaccaggcc ctcttgagc acctgcccag agagcaacga gaggcttcc 1740
ccggcccccc agttcagacc tggacactga tgctgagggg gatgactttg agttctggaa 1800
ccagtcggag ctgagtcagc tggaccctgc cagttcttagg agccactgag gcagagactc 1860
cttttggag tcaactgtggt ttaggtttt ttctcccat cccacttaag gtgtatggggc 1920
aagggaagaaa ctcaagctccc ctccctgaa ttatatttgc atgctgggtg gcctggctga 1980
tgctcagagg cttccctaga gaggacactc actccccc tccaccgtgg atgcccattt 2040
ctgagctcag tcaactgaagt gagagtgtgc tcccccaagg gaggcttctc tccatcaggaa 2100
tggtaactttt ggggaacaaa atagtcaggg atattgggtc cccttgagg aggtgctgt 2160
gtttgtttt aggtatgagt gtcaggggc cctcaactgaa agagccatg cctgccttcc 2220
tcccttcatac gcctctctag agcccccaaa gtcaggcagc agctgggatg tttacattttt 2280
catcatcttt ttttttggaga cagtttcgtt ctgttgcggc ggctggatg cagttgtgt 2340
atcttggctt tctgcaacgt ctgccttcca ggttgaagag gttctctgc ctcagcctcc 2400
tttagtagtgg gattacaggt gcccgtact atgccccgtt aatttttttt ttggatattttt 2460
tagtagaaat ggggttccac catgttggcc aggctggctt caaactccctg acctcaagtg 2520
agctgactgc ctggcctcc cagagtgtcg ggattagtcg tcatctttt ttaaaccagg 2580
atttgatttttt tttctttttt tttctttttt ttttttttga gacagagtct 2640
ctctctgttg cccaggctgg agtgcagtgg cacaatctcg gctcaactgc gcctccggct 2700
gccgggtcaa gcgattctcc tacctcagcc tcctcagtag ctgagattac aggcattgcac 2760
caccatgecc ggctaaatttt tttgtgtttt tagtagagat ggggttccac cgtgtggcc 2820
aggctggctt agaactccctg actgcaaatg atcagccccgc ctcagccacc caaagtgtt 2880
ggattacagg tgtgagccac tgtgcccagc gtgatTTTTT ttttttttt taaagcaaaac 2940
ttgtcccttg gttttgcaga acaggccctgc tcctctcat cttagccacc atttctgggg 3000
gcctgaaccc cagttggcga aagtattgtt tttttttttt taaatgtt aatatgtat 3060

ggggatgggc ctcttctaca ttacccggc ccaggggat cagctggctg ggaggattag	3120
tgagcacctc tgatgttga ggtctgagtc ttctggagct gtgttagttaa tcttcggttt	3180
ctgataaccc ctgggtccat ctggccatca gcctcagcag tgagcaaagc aataccatac	3240
tcatttttat gttctgttc ctccctctgc tcctcccttg gagaagcaat aattcatggg	3300
ggatgataca gtacgactt acaaattggct ccatgtcatt catcccaggg gccataatct	3360
cttgcaccac ctattttac ttctgttca gtcctttac agcttttattt tcactgtct	3420
tcccaacttg gtggggcctc cttaaggat gagccaatag taagaatgtg gctgtatca	3480
gcagagaccc ctctgagggg tatctgttct gcagccccata gtgaatcat gtatgtgag	3540
acagaaacct aaacatggta ctgttctaa aacctgtgcc agtctatagc ctgtgcctcc	3600
ccaaggcagag ctcaagccaa acgcttctgt cctcttctc tctgcattaa cccttgcgt	3660
atcctcaggg gccactcccc caacacccctt gtacttgggt gaggatgtt ggacagagcc	3720
tgttttcatg tactgcaggt gggggtgtgc tgacatgtt gcttttgtt gatggagaag	3780
gtcagagggc caggaggatgtaa aatgggttga cagaagaggaa aagagttagg tgtctcatag	3840
tcactcatag tgggggtggtc aggggtatag gcatctcccc actttaggct tctcaaacag	3900
acttttgaca cctctcaagt tcagagctt gatgtggaaa gacaggagggt gttgggaaagg	3960
agggggattt cgtgttggcatgatgtgtcg cgtttcaggc cttggggatggc ggcaagagg	4020
agggaaaggaa ggagagcaaa atcttcggaa ggtgtttttt gtacctgagg gatcctgccc	4080
tgaatctcca tagtctccac tgtgaactga ggaggggagg ggtgtgttgg ggaataaaatc	4140
ttgtatgaga acaatc	4156

<210> 454
<211> 2075
<212> DNA
<213> *Homo sapiens*

```
<400> 454
ggccataaagg ccgcgcgcg cccacgcgcc tcgcgttgcgt cgcgctgccc ggcgttccttc 60
ctcctcggtcgct cgcgtctcac tcagtgttacc ttcttagtccc gccatggccg ctctcaacccg 120
ggaccccccag ttccagaagc tgcaagaaatg gtacccgcag caccgcgtccg agctgaacct 180
gcccgcgttc ttcatgtccca acaaggaccg cttcaaccac ttcatgttgc ccctcaacac 240
caaccatggg catatcctgg tggattactc caagaacactg gtgacggagg acgtgtatgcg 300
gtatgttgtg gacttggcca aatccagggg cgatggaggcc gccccggggc ggatgttcaa 360
tggtgagaag atcaactaca ccgagggtcg aatccgttgcgt cacaatgggttc tgccggaccg 420
gtccaaacaca cccatcctgg tagacggcaa ggtatgtqatq ccacagatcaca acaagggttc 480
```

ggacaagatg aagtctttctt gccagcgtgt ccggaggcggt gactggaaagg ggtacacagg 540
caagaccatc acggacgtca tcaacattgg cattggcgcc tcggacctgg gacccctcat 600
ggtgaactgaa gcccctaagc catactcttc aggaggtcccc cgctgttggt atgtctccaa 660
cattatggaa actcacatttgc cccaaacccct ggcccagctg aaccccgaggt cctcccttgtt 720
catcattgcc tccaagacact ttactaccca ggagaccatc acgaatgcag agacggcgaa 780
ggagtggttt ctccaggcgcc ccaaggatcc ttctgcagtg gcaagactt ttgttgcctt 840
gtctactaac acaaccaaag tgaaggagtt tgaaatttgc cctccaaaca tgttcgagtt 900
ctgggattgg gtgggaggac gctactcgct gtggteggcc atcggaactctt ccattgcctt 960
gcacgtgggtt ttgtacaact tcgagcagct gctctcgcccc gtcacttgga tggaccagca 1020
cttccgcacg acggcccttgg agaagaacgc ccccgcttgc ctggccctgc tgggtatctg 1080
gtacatcaac tgctttgggt gtgagacaca cggcatgtg ccctatgcac agtactctca 1140
ccgcttgcgtt gctacttcc agcaggcgca catggagtcc aatggaaaat acatcaccaa 1200
atctggaaacc cgtgtggacc accagacagg ccccatgtg tggggggagc cagggacc 1260
tggccagcat gcttttacc agctcatcca ccaaggcacc aagatgatac cctgtgactt 1320
cctcatcccg gtccagaccc agcaccctt acggaggggtt ctgcacatca agatccctt 1380
ggccaaacttc ttggcccgaga cagaggccctt gatggggggaa aatcgacgg aggaggcccg 1440
aaaggagctc caggctgcgg gcaagagtcc agaggacctt gagggctgc tgccacataa 1500
ggtctttgaa ggaatcgcc caaccaactc tattgtgttc accaagctca caccattcat 1560
gcttggagcc ttggcgcca tggatgagca caagatcttc gttcaggca tcatctggga 1620
catcaacagc ttgtaccagt ggggagtgaa gctggaaag cagctggctca agaaaataga 1680
gcctgagctt gatggcagtg ctaactgtac ctctcagc gttctacca atgggctcat 1740
caacttcatc aagcagcagc gcgaggccag agtccaataa actcgtgttc atctgcagcc 1800
tcctctgtga ctcccccttc tttctcgct cctccctcccc ggagccggca ctgcatgttc 1860
ctggacacca cccagagcac cctctgggtt tgggtttggaa ccacagggcc tttagcaggaa 1920
aggctggtct cccccagctt aaccccccagc cctccatgtt ctatgtcccc tctgtgttag 1980
aattggctga agtggggggat tggcagctgac tttctgtaccat catgttcacg tggttcacat 2040
cccatqtaqa aaaataaaqa tgccacggag gagat 2050

210 455

1385

<212> DNA

<213> Homo sapiens

<400> 455

gggctgcctg	tgacgcgcgg	cgcggcggg	cctgcctgt	a c g g c g g c g g	c g g c t g c t g c	60
tccagacacc	tgcgccggc	gcggcgacc	cgcggcggg	g c g g a g a t g t	g g c c c t g g t	120
agcggcgtg	ttgcgtggc	cggcgtgt	cggatcagt	c a g c t a c t a t	t t a a t a a a a c	180
aaaatctgt	gaattcacgt	tttgcgtat	cactgtcg	a t t c c a t g t	t t g t t a c t a a	240
tatggaggca	caaaacacta	ctgaagtata	cgtaaagtgg	a a a t t a a a g	g a a g a g a t a t	300
ttacaccc	tttgcgtat	taacaacgtc	cactgtcccc	a c t g a c t t a	g t a g t g c a a a	360
aattgaagtc	tcacaattac	taaaaggaga	tgcctcttt	a a g a t g g a t a	a g a g t g a t g c	420
tgttcacac	acaggaaact	acacttgta	agtaacagaa	t t a a c c a g a g	a a g g t g a a a c	480
gatcatcgag	ctaaaatatac	gtgttgc	atggtttct	c c a a t g a a a	a t a t t c t t a t	540
tgttattttc	ccaaattttgc	ctatactcc	gttctggga	c a g t t g g t a	t t a a a a c a c t	600
taaatataga	tccgggtgta	tggatgagaa	a a c a a t t g t	t t a c t t g t t g	c t g g a c t a g t	660
gatcaactgc	attgtcat	ttggagccat	t c t t t c g t c	c c a g g t g a a t	a t t c a t t a a a	720
gaatgc	actggcttgg	taattgtgc	t t c t a c a g g g	a t t a a t a t	t a c t t c a c t a	780
c t a t g t g t t	agtagcgc	ttggattaac	c t c t t c g t c	a t t g c c a t a t	t g g t t a t t c a	840
ggtatagcc	tatatcccg	ctgtgggtt	a c t g a g t c t c	t g t a t t g c g g	c g t g t a t a c c	900
aatgcgtgc	c c t c t c t g a	tttcagggtt	g a g t a t c t a	g c t c t a g c a c	a a t t a c t t g g	960
actagtttat	atgaaatttgc	tggctccaa	t c a g a a g a c t	a t a c a a c c t c	c t a g g a a a g c	1020
tgttagggaa	c c c c t t a a t g	cattcaaaga	a t c a a a g g a	a t g a t g a a t g	a t g a a t a c t	1080
gaagtgaagt	gatggactcc	gatgggaga	g t a g t a a g a c	g t g a a a g g a a	t a c a c t t c t g	1140
t t a a g c a c	atggccttgc	tgattca	t t g g g g a g a a	g a a a c a a g a a	a a g t a a c t g g	1200
t t g t c a c t a	t g a g a c c t t	a c g t g a t t g t	t a g t t a a g t t	t t t a t t c a a a	g c a g t g t a a	1260
t t t a g t t a a t	aaaataatta	t g a t c				1285

<210> 456
<211> 1188
<212> DNA
<213> Homo sapiens

<400> 456	atggcgcccc	gaagcctct	cctgcgtc	t c a g g g g c c c	t g g c c c t g a c	c g a t a c t t g g	60
	g c g g g c t c c	a c t c c t t g a g	g t a t t c a g c	a c c g c t g t g t	c g c g g c c c g g	c c g c g g g g a g	120
	c c c c g c t a c a	t c g c c t g g a	g t a c g t a g a c	g a c a c g c a a t	t c c t g c g g t t	c g a c a g c g a c	180
	g c c g c g a t t c	c g a g g a t g g a	g c c g c g g g a g	c c g t g g g t g g	a g c a a g a g g g	g c c g c a g t a t	240
	t g g g a g t g g a	c c a c a g g g t a	c g c c a a g g c c	a a c g c a c a g a	c t g a c c g a g t	g g c c c t g a g g	300

aacctgtcc	gccgtacaa	ccagagcgag	gctgggtctc	acaccctcca	gggaatgaard	360
ggctgcaca	tggggcccga	cggacgcctc	ctccgcgggt	atcaccagca	cgcgtacgac	420
ggcaaggatt	acatctccct	gaacgaggac	ctgcgtctct	ggacgcggc	ggacaccgtg	480
gctcagatca	cccagcgctt	ctatgaggca	gaggaatatg	cagaggagtt	caggacctac	540
ctggaggcg	agtgcctgga	gttgctccgc	agatacttgg	agaatggaa	ggagacgcta	600
cagcgcgcag	atcctccaaa	ggcacacgtt	gcccaccacc	ccatctctga	ccatgaggcc	660
accctgaggt	gctgggcct	gggcttctac	cctgcggaga	tcacgctgac	ctggcagcgg	720
gatggggagg	aacagaccca	ggacacagag	cttgtggaga	ccaggcctgc	aggggatggaa	780
accttccaga	agtggccgc	tgtgtgggt	ccttctggag	aggaacagag	atacatatgc	840
catgtgcagc	acgaggggct	gccccagccc	ctcatcctga	gatgggagca	gtctccccag	900
cccaccatcc	ccatcggtgg	catcggtgt	ggcctgttg	tccttggagc	tgtggtcact	960
ggagctgtgg	tcgctgtgt	gatgtggagg	aagaagagct	cagatagaaa	cagagggagc	1020
tactctcagg	ctgcagtcac	tgacagtgcc	cagggctctg	gggtgtctct	cacagctaatt	1080
aaagtgtgag	acagttcct	tgtgtggac	tgagaagcaa	gatataatg	tagcagaatt	1140
gcacttgc	ctcacgaaca	tacataaatt	ttaaaaataa	agaataaa		1188

<210> 457
<211> 1727
<212> DNA
<213> Homo sapiens

<400> 457						
ctacagaaaa	tgggttaaga	gtatacgcac	ttcatcaaac	acatataggg	aaaaaaaaatcc	60
ttcaatttag	agttaataaa	ctcagctttg	tatagtagag	ttagcgtctc	agtatctaacc	120
aatctcgaa	tcatctctga	aaactgttac	ctatgttcc	attttaattt	ttgtcctaaa	180
tatcagatgt	cttgcgtgt	aggtagggaa	atggagaaat	atttcaattt	gtgtatttgt	240
attacaaaga	acttggaaatt	tactttctta	gttgattata	ttaaatgtat	tatataatttt	300
atgtggttta	taagctcaac	actggccatt	tttttttagtt	ttatgtttaa	atggattttt	360
tctatgttta	attataatag	atctggcttt	tctggatag	cataaaagatc	actgaacttat	420
atatatataaa	gaaacaagag	ttctatttta	gcacaaaggc	attttatattt	atttatggaa	480
tccataagtt	tgttttcgtc	aaaaacattc	catattattt	ctgctccctt	ttatgttata	540
agtttggat	ttaaagaataa	ggcagtcctt	cctgttctta	atacaataaa	attgaaataaa	600
tgcacctagt	aatgtggccg	acatctcttc	tcaccaccaat	ggactgtttt	caacaacagt	660
tgtatcttcgt	gtctgtgtctg	agaggcgcac	gcatgtcttt	cgtcacgtcg	ggcagcacac	720

ctgctgtgaa atactgcttt catctaccc ttcagaaggc ttcttgcttg ttgacaagta	780
ccgcaaggc ttatttctgg actggctatc tcataaaaagg atttctgtaa gactttgcag	840
tgtcattccc tcagaaccta gggttgggta taaagccacg gtattgtcca ggagccccctg	900
tgtgtgggca aggttagctat ccctcccatg tcatttagtaa tccttttagga tttaaaggtaac	960
aactggacag catcatccct tccccttatt gtgccaaattc cccaccatca gccttgcatt	1020
tgccctaaga tttgattttt gcacccaattt acctaaccac taaacagaaa ggccacccctc	1080
actcttggaa aaaggcaagc tgtgcttaga aacactgctt ttaagagtag cacatttgag	1140
tgtgactttt tcccccttc actatttcaa aatgggttttgg aaatggggtc tttaaggtaa	1200
gcgcctcat acatgactga aactttgtga gaggtcttat atttgaatgg acccttaatg	1260
atttatgtga aatagaatga agtcctgtct ctgtgagaga acgtgcctcc tcactcattt	1320
gtctctgtct gtttcatag ccatcaatat agtaacatat ttactatatt ctgtgataacc	1380
cttgaagaaa gaaatccgtt ttcttattgtc cattgctata cgaagtgaag ccagtaaaact	1440
agatactgtta aatctagata ttgtacccatg acaaaatatc attgggtctta tctctttttt	1500
tatctgttgtt gccagggaaag gtttataatc ctttctcagt atacactcac tagtgacacgt	1560
ctgaaaatagt atccccacggg agatgctgtt ccacgtctga ggtcacctgc cctgtgtggg	1620
gcacaccacc gtcagcacca ccgtttttac agttacttttgg gagctgctag actgggttttcc	1680
tggtgttggta aattgcctat ataaaatctga ataaaaagga tctgtac	1727

<210> 458
<211> 1046
<212> DNA
<213> Homo sapiens

<400> 458 ataaaacaact tgatgcagat gttccccca agcccactat ttttcttcct tcgattgtgt	60
aaacaaaaactt ccagaaggctt ggaacatatac tttgtttttc tgagaaaattt ttccccagata	120
tttattaagat acattggcaaa gaaaagaaga gcaacacgtat tctggatcc caggagggga	180
acaccatgaa gactaacgcac acatacatgaa aattttagctg gttacgggtt ccagaagagt	240
cactggacaa agaacacaga tgatcgatc gacatgagaa taataaaaac ggaattgtatc	300
aagaaattat ctttcctcca ataaagacag atgtcaccac agtggatccc aaagacagtt	360
attcaaaaga tgcaaatgat gtcaccacag tggatcccaaa atacaattat tcaaaggatgt	420
caaatgatgt catcacaatg gatccccaaag acaattgggtt aaaagatgca aatgatacac	480
tactgctgca gtcacaaac acctctgtcat attacatgta ctcctccctg ctcctcaaga	540
gtgtgttggta ttttgcctatc atcacctgtt gtcgtgtttgg aagaacggctt ttctgtgtca	600

atggagagaaa	atcataacag	acgggtggcac	aaggaggcca	tcttttccctc	atcggttatt	660
gtccccataga	gctgtttctg	aggatctagt	tgggcttctt	ttctgggttt	ggccatttc	720
agttctcatg	tgtgtactat	tctatcatta	ttgtataatg	gttttcaaaac	cagtgggcac	780
acagagaacc	tcagtcgtat	ataacaatga	ggaatagcca	tgccatctc	cagcaccaat	840
ctctccatgt	tttccacagc	tcctccaggc	aacccaaata	gcgcctgcta	tagtgtagac	900
agcctgcggc	ttcttagcctt	gtccctctct	tagtgttctt	taatcagata	actgcctgga	960
agcctttcat	tttacacgcg	ctgaaggcgt	tttctttgt	agttgaatta	tgtggtgt	1020
ttttccgtaa	taagcaaaaat	aaattt				1046
<210>	459					
<211>	169					
<212>	DNA					
<213>	Homo sapiens					
<400>	459					
cgtgtttgca	gcctctagaa	aagaagtgtat	attataaaaa	acatttacca	taaccgtaac	60
aatgaatgaa	gaaaggaaga	cttggttctt	ctagctctgg	acaaaattcc	atttttttta	120
aaaaaaaaat	tgatttccag	ctgaagtata	gtacatctct	gatgttttc		169
<210>	460					
<211>	4465					
<212>	DNA					
<213>	Homo sapiens					
<400>	460					
caattgtcat	acgacttgca	gtgagcgtca	ggagcacgtc	caggaactcc	teagcagcgc	60
ctcttcagc	tccacagcca	gacgcctca	gacagcaaag	cctacccccc	cgccgcgc	120
tgcccgccgc	teggatgctc	gcccgcgc	tgctgtgt	cgccgtctcg	ggcgtcagcc	180
atacagcaaa	tccttgctgt	tcccacccat	gtcaaaacccg	aggtgtatgt	atgagtgtgg	240
gatttgacca	gtataagtgc	gatttgatccc	ggacaggatt	ctatggagaa	aactgctcaa	300
cacccgaatt	tttgacaaga	ataaaaattat	ttctgaaacc	cactccaaac	acagtgcact	360
acatacttac	ccacttcaag	ggattttgga	acgttgtgaa	taacattccc	ttccttcgaa	420
atgcaattat	gagttatgtc	ttgacatcca	gatcacattt	gattgacagt	ccaccaactt	480
acaatgctga	ctatggctac	aaaagctggg	aagccctctc	taacctctcc	tattataacta	540
gagcccttcc	tcctgtgcct	gatgattgcc	cgactccctt	gggtgtcaaa	ggtaaaaagc	600
agcttccatgt	ttcaaatgag	attgtggaaa	aattgtttctt	aagaagaag	ttcatccctg	660
atccccaggg	ctcaaacatg	atgtttgcat	tctttgcca	gcacttcacg	catcagttt	720
tcaagacaga	tcataagcga	ggccagctt	tcaccaacgg	gctggccat	gggggtggact	780

taaatcatat ttacggtaa actctggta gacagcgta actgcgcctt ttcaaggatg 840
gaaaaatgaa atatcagata attgatggag agatgtatcc tccccacagtc aaagatactc 900
aggcagagat gatctaccct cctcaagtcc ctgagcatct acggtttgct gtggggcagg 960
aggtctttgg tctggtgccc ggtctgtatga tttatgccac aatctggctg cgaaaacaca 1020
acagagtatg cgtatgtgtt aaacaggagc atcctgaatg ggggtatgag cagttgtcc 1080
agacaagcag gctaataactg attaggagaga ctatataatg tttatgtatgg aattatgtc 1140
aacactttag tggcttatcac ttcaaaactgaa aatttgcaccc agaactactt ttcaacaac 1200
aattccagta cccaaatcgtt attgtgtgtt aatttacac cctcttatcac tggcatcccc 1260
ttctgcctgaa caccccaaatttcaatttgcatttgc aatccatcacttcaacac 1320
acaactctat attgtgtggaa catggaaatta cccagtttgtt tttatccatc accaggccaa 1380
ttgctggcag gggtgtgtt ggttagaaatg ttccacccgc agtacagaaa gtatcacagg 1440
cttccatttgc ccagagcagg cagatgaaat accagtctttt taatgtatgc cggaaacgc 1500
ttatgtgtgaa gcccttatgaa tcatatttgc aacttacagg agaaaaggaa atgtctgcag 1560
agtttggaaagc actctatgtt gacatcgatg ctgtggagct gtatccctgc cttctgttag 1620
aaaaggcctcg gccagatgcc atcttttgc aacccatgtt agaagggttgc gcaccatttc 1680
ccttggaaagg acttatgggtt aatgttataatg tttatccctgc ctactggaaag ccaagcactt 1740
tttgggttgc aatgtgggtttt caaatcatca acactgcctt aattcgtctt ctatctgc 1800
ataacgtgaa gggctgtccc tttacttcat tcgtgtttc agatccagag ctcatataaa 1860
cagtcacccat caatgcacgt ttttcccgctt ccggactaga tgatatcaat cccacagttac 1920
tactaaaaga acgttcgact gaactgttgc aatgttgcactt tttatccatcaat 1980
gaaccatgttc tattatatttta atttatttta aatattttata tttaactccct tatgtttactt 2040
aacatcttctt gtaacagaag tcagttactcc ttgttgcggag aaaggagtca tacttgc 2100
gactttttatg tcactactctt aatgggtttt ctgtgtgttgc taatgtttggaa aacatgtttt 2160
tattctgtttt tataaccagg agagaaatgaa gttttgcactt ctttttactt gaatttcaac 2220
ttatattata agaacgaaag taaagatgtt tttatccatca aacactatca caagatggca 2280
aatgtgtgaa agtttttata ctgtgtgttgc ttccatgc ttttccatgc tgcatttagaa 2340
gttactatgtt ttgtttttttt taaagatgtt tttatccatca aacatgtttt 2400
aggtatcgtt gcattattaa atgaatattt aaatttagaca ttaccaggtaa ttcatgtct 2460
actttttttttt aatcagacatg aacaaataat ttgtttttttt taaatttcata ggttgcactt 2520
acctgttaaaa gtttttttttgc ttctttttttt tttttttttt tttttttttt tttttttttt 2580

gctgtcttgg	atttaaatct	gtaaaatcg	atgaaatttt	actacaattt	cttgtaaaa	2640
tattttataa	gtgtatgtcc	ttttcacca	agagtataaa	ccttttagt	gtgactgtta	2700
aaacttcctt	ttaaatcaa	atgc当地	tattaagggt	gtggagccac	tgc当地gtta	2760
tctcaaata	agaatatttt	gttgagat	tccagaattt	gttatatgg	ctggtaacat	2820
gtaaaatcta	tatcagcaaa	agggtctacc	tttaaaaataa	gcaataacaa	agaagaaaac	2880
caaatttttg	ttcaaattha	ggtttaaact	tttgaagcaa	actttttttt	atccttgc	2940
actgcaggcc	tggtaactcg	attttgcata	gagggttaatg	aagtaccaag	ctgtgcttga	3000
ataacgatat	gttttctcg	attttctgtt	gtacagttt	atttacagtt	ccatatacaca	3060
ttgcaaaagt	agcaatgacc	tcataaaataa	cctcttcaaa	atgcttaat	tcatttcaca	3120
cattaaattt	atctcagtt	tgaagccat	tcaatgtt	catttgcata	aaggctggct	3180
acctgcattc	tttttcttct	tttagccatt	ttgcttaagag	acacagtctt	3240	
ctcatcactt	cgtttctcct	attttgcattt	actagttta	agatcagat	tcaatgtt	3300
tggactctgc	ctatattttc	ttacctgtt	tttttgcata	tttcaggtaa	acctcagctc	3360
aggactgtca	tttagcttct	cttaagaaga	ttaaaagaga	aaaaaaaagg	cccttttaaa	3420
aatagtatatac	acttattttt	agtggaaagc	agagaattttt	atttatagct	atttttagct	3480
atctgttacc	aatatggatg	caaagaggct	agtgccttgc	agagaactgt	acgggggttg	3540
tgactggaaa	aaatttacgtt	cccatttctaa	ttaatgcctt	tttgcatttta	aaaacaaaac	3600
caaattgtat	ctaaatgtt	ctcagcaata	ataataatga	cgataataact	tcttttccac	3660
atctcattgt	cactgttacc	taatgttact	gtatattact	taattttattt	aaagatttta	3720
tttatgttctt	attaggacac	tatgttataa	aactgttgc	aaggcttacaa	tcaatttgc	3780
ttttttgtta	tgtcacaatc	agtatatttt	ctttgggtt	acctcttgc	atattatgt	3840
aacaatccaa	agaaatgatt	gtatgttataa	ttgttgcataa	attttttagaa	atctgttgc	3900
catatttgcata	tatgttataa	tatgttataa	ttgttgcataa	ttgttgcataa	ttgttgcataa	3960
aaagaatattt	gtcttatttt	cctgttgcata	ccataagact	gacctttaa	aatgtttgc	4020
gggatctgtt	gtatgttgc	taatgttgc	agccacaatt	tatttgcataa	atatttgcata	4080
tcaaggacttgc	ttttttttaa	tatgttataa	tcaacgttgc	attacagata	atgttataa	4140
tataaataat	tgtttttttt	tttgcataa	tttttgcata	tttttgcata	tttttgcata	4200
aaagataact	caggagaatc	tttgcataa	tttttgcata	tttttgcata	tttttgcata	4260
agaaatagtc	aatatgttgc	tatgttataa	tatgttataa	tttttgcata	tttttgcata	4320
gatgttgcata	taatgttgcata	tttgcataa	tttttgcata	tttttgcata	tttttgcata	4380
tttttgcata	tttttgcata	tttttgcata	tttttgcata	tttttgcata	tttttgcata	4440

tgtctgttta tttttgtact attta

4465

<210> 461
<211> 3056
<212> DNA
<213> Homo sapiens

<400> 461
agcgaggattt gctgtccggaa agcggccggtg ggggcccggg cgttaggcggaa ggagattttc 60
ggacctgcga ctccgaaca accctggcag gaggagccgc gttcagccgg gggaggcctg 120
aagaaaacgcgt ccggggccca gtggctctac ccctgtcttgc gcccggaccct gccgcctccc 180
tcacggagcc agcggccggg taggtatgcag acatcagaac gtgagggggag tggggccggag 240
ctgagccccca gctgtatgcc cgaggctccc ctggagtctc cacctttcc taccaagtcc 300
ccagcggtttt accttttcaa ctgggttctc tcctacaaga ggctggagat caacctggaa 360
cccttgaagg atgcaggatgttga tgggttctca tacttgcgtca ggtggccatgc gcctttgtgt 420
tccttgcgtga cctgcctggg cctcaacgtc ttgttctca ctttgaatga gggtgcatgg 480
tactcgttagt gtgcctgtat gatttcgttgc cccgcctgc tgggttgcgttgc acaggaggtt 540
tgccgggcac ggctgcctga ttccgagctg atgcggagga agtatcatag cgtgaggccg 600
gaggacctgc agagagttcg cctgtctcg tccgaggccg tggctgaggtt gaagagcttc 660
ttgtatccagc tggaggcctt cctgagccgc ctgtgcgtca catgtgaagc cgcctaccgc 720
gtgtgcactt gggagaaccc cgtcgatgttgc tcaatgttctt atggggctct tctgggcaca 780
gtctgcatgc tgtatgttgc tgggttctca ccctttaaa cagcacgttc 840
tttctgggaa atgtggatgtt cttccgagtt gtgtctgagttt acagggttgc tctgcagccg 900
aggatgaacc caaaagcggaa agagcatgcc tttgagatgc ctccaccacc agatgttggg 960
gggaaggatgt gtctgtatggc cagcacgttgc ggcctcacac ccacggagga cctcacaccg 1020
ggcagcgtgg aggaggctga ggaggctgag ccagatgaag agttaaaga tgcgattgag 1080
gagacccactt tgggtgtctt ggaggatgtt gggggccccc cgtgcccagc agaggatgtt 1140
ctggccctgc aggacaacccg gttcctgtgc aagaatgagg tgctgtcgatgc caagggttct 1200
cggtcacgg agcggctccg caagcgctac cccaccaaca acttcggaa ctgcacggc 1260
tgctcgccca cttctctgtt gctgaagaag aggccggatgc gcagataattt tggaaacagc 1320
ttctgtctc gatgtctgc tttcaaggttgc ccaatgttgc ccatggggc cacagccctt 1380
gaagccca gggagactgtt gtttggatgtt gctctgttgc accagacccctt gagcaagtga 1440
gaagagagggc cagggtccaa ccaggcaccc gtcctgggg ccagcgttagt acccccccactt 1500
ctccccaccc ctggccctactt gtgggtgttgc ctggcataat gtggcctgaa tgcttaggtt 1560

gcttccccctt	ccttcctcac	tctctccagc	tggttctgg	agctgttctc	catccatgag	1620
agtggctggc	aatggctgct	ctcaatccc	tgagggagaa	gagccctgg	aggccctggc	1680
atgtttgcc	tgctctgcct	gggactgagc	gagtgggactt	agggctggc	aggcagtagc	1740
caccagagg	cagcagcgaa	ctaggccagg	cctgactggg	gtctgaatg	cagggtcagt	1800
gtggctatgc	ctgggaattc	cagacactgag	gttggggaaa	gagggtttc	tcctgcaggg	1860
tactggccca	ggccctcagc	ctcagagagc	ctgcagaagg	gttggggagt	gccacacccc	1920
atctctgtctg	attgaatgtc	cctccaggca	ccaggatctc	atcatttccc	catcagaggg	1980
tgtggccagg	cctaacaaga	ccatgggtc	ttctagaaac	agggttgaag	ttcccgatt	2040
ccctgagagg	agaatgtgta	taggagggtt	tggctgagtc	cttcagcggtt	aagtggagga	2100
aagcttgggg	aagccccaaat	agctggacag	acctcagcc	cccccctgaag	acacccataat	2160
tcacagactc	tcagccccaca	caatgcccc	gtgtccccag	ctccgctgga	gcagctgcag	2220
ggcacttgg	tcacaacttc	tgcacccctct	gtccagagtc	tagggcagtc	ctccactggc	2280
ccagcactcc	agtttccctt	ccctgcctct	tgtccaatgg	agtggggagc	caggtgagtg	2340
gagcagagg	cctgaagccc	ttgaccctctg	ggggcctggg	tagttagga	tctcgctggg	2400
ctgggtctctg	gattccagg	ctatccctgt	gaggacagtc	tcaagtatgg	gataaggccc	2460
cctgggggtc	tccatttctt	tccaacatgt	tcatgttac	tactggactc	ttacgggctc	2520
agtatctctc	ccttagccat	gagctggctc	aggcatccct	tccctccct	ggagctgccc	2580
tgcccttctc	aagtatttat	ttatatttt	catggttct	ggaaacatgt	ggcacaagta	2640
atgggatgag	gaggaattgg	gggtgggggt	tttctaccta	ggacttcttc	ctggagtcat	2700
gggtgtcctg	ggacccagga	cccatgaggg	ggctgagagg	tttctacact	cgaggagcag	2760
gggtccagag	aggcaggctg	gggaggcaag	ggacccatcc	taggcccgt	ttcttgccga	2820
gccaagcgc	ttagtgggg	ctgtgcagcc	aggggcttac	ccagggcagt	ggaggtgcca	2880
cagccctggg	gagccagaca	ggcttggta	tcgtatgc	tctgtgtct	tttaagagag	2940
gagagttcag	tacccctgtc	tttctttaca	ctggagagga	actaaaagg	tctctgtgtc	3000
tatggagaat	tgtcaataaa	aaggcctcaa	gcttcaaaag	aaaaaaaaaa	aaaaaaa	3056

<210> 462
<211> 2615
<212> DNA
<213> Homo sapiens

<400> 462	gaattccggg	aaggcagacg	gttaacacag	acaaaagtct	gccgtacac	tcggccctcc	60
	agtgttgcgg	agaggcaaga	gcagcgaccc	cgcacactgtc	cgcgggagc	tgggacgcgc	120

gccccggcgg	ccggacgaag	cgaggaggga	cgcgcgggc	tgcggccaag	tgtaactcca	180
gcactgttag	gttcaggga	ttggcagagg	ggaccaagg	gacataaaa	tggacatgga	240
ggatgcggat	atgactctgt	ggacagaggc	ttagttgaa	gagaagtgt	catacatgtt	300
gaacgaccac	ccctgggatt	ctggctgt	tggcggtact	tgcggcagg	cgaggcattc	360
cttaccaagg	aatctgttt	tcaagtatgc	caccaacagt	gaagaggta	ttggagtgtat	420
gagtaaagaa	tacataccaa	agggcacacg	tttggaccc	ctaatacggt	aatatctacac	480
caatgcacaca	gttccataaga	acgcacacag	aaaatattt	tggaggatct	attccagagg	540
ggagcttcac	cacttcattt	acggctttaa	tgaagagaaa	agcaactgga	tgcgctatgt	600
gaatccagca	cactctcccc	gggagcaaaa	cctggctcg	tgtcagaacg	ggatgaacat	660
ctacttctac	accattaagc	ccatccctgc	caaccaggaa	cttcttgtt	ggtattgtcg	720
ggactttgc	gaaaggcttc	actaccctta	tcccggagag	ctgacaatga	tgaatctcac	780
acaacacacag	agcagtctaa	agcaaccgag	cactgagaaa	aatgaactct	gcccaaagaa	840
tgtcccaaaag	agagagtaca	gcgtgaaaga	aatccaaaa	ttggactcca	accctccaa	900
aggaaaggac	ctctaccgtt	ctaacattt	acccttcaca	tcaaaaagg	acctcgatga	960
ctttagaaga	cgtgggagcc	cgaaatgcc	cttctaccct	cgggtcgtt	accctatccg	1020
ggccctctg	ccagaagact	tttggaaagc	tccctggcc	tacggatcg	agagacccac	1080
gtacatca	cgctccccca	ttccatccct	caccactcca	agccctctg	caagaagcag	1140
ccccgaccaa	agcctcaaga	gtccagccc	tcacagcgc	cctggaaata	cggtgtcccc	1200
tgtgggcccc	ggctctcaag	agcacccgg	ctcctacgt	tacttgaacg	cgtctacgg	1260
cacggaaagg	ttgggctctt	accctggcta	cgcacccctg	ccccaccc	cgcacgttt	1320
catccctctg	tacaacgctc	actacccaa	gttctcttg	ccccctta	gcatgaattt	1380
taatggcctg	agcgctgt	gacatgaa	tggcatcaac	aacttggcc	tcttcccgag	1440
gctgtgcct	gtctacagca	atctctcg	tggggccagc	ctggcccacc	ccatgtctaa	1500
ccccactct	ctcccgagct	cgctgcctc	agatggagcc	cggagggttgc	tccagccgga	1560
gcatccagg	gagggtcttg	tccggcgc	ccacagtgc	ttctccctta	ccggggccgc	1620
cgcacatg	aaggacaagg	cctgtagecc	cacaagcgg	tctcccaegg	cggaacacgc	1680
cgcacacgc	gaacatgtgg	tgcagccaa	agtcacctca	gcagcgtatgg	cagccccca	1740
cagcgcacaa	gccatgaatc	tcataaaaaa	caaaagaaac	atgaccggct	acaagaccct	1800
tccctacccg	ctgaagaagc	agaacggcaa	gatcaagtac	aatgcaacg	tttgegccaa	1860
gactttccgc	cagctctcca	atctgaaggt	ccacctgaga	gtgcacagtg	gagaacggcc	1920

tttcaaatgt	cagacttgca	acaagggctt	tactcagctc	gcccacctgc	agaaacacta	1980
cctggcacac	acggggaaaa	agccacatga	atgccaggtc	tgccacaaga	gattttagcag	2040
caccagcaat	ctcaagaccc	acctgcgact	ccattctggta	gagaaacccat	accaatgcac	2100
ggtgtgcctt	gccaagtta	cccagttgt	gcacctgaaa	ctgcacaaggc	gtctgcacac	2160
ccgggagcg	ccccacaagt	gctcccagtg	ccacaagaac	tacatccatc	tctgtggcct	2220
caagggttac	ctgaaaggga	actgcgtgc	ggcccccggcg	cctgggctgc	ccttggaaaga	2280
tctgaccgc	atcaatgaag	aaatcgagaa	gtttgacatc	agtgacaatg	ctgaccggct	2340
cgaggacgtg	gaggatgaca	tcagtgtat	ctctgttagtg	gagaaggaaa	ttctggccgt	2400
ggtcagaaaa	gagaaagaag	aaactggct	gaaagtgtct	ttgcaaaagaaa	acatggggaa	2460
tggactctc	tcctcagggt	gcagccctta	tgagtcatca	gatctacccc	tcatgaagtt	2520
gcctccca	aacccactac	ctctggtacc	tgtaaaaggc	aaacaagaaa	cagttgaacc	2580
aatggatcct	taagatttc	agaaaacact	tattt			2615

<210> 463
<211> 1432
<212> DNA
<213> Homo sapiens

<400> 463						
gtctgtccgc	ctgcgtcgct	ccgggagctg	ccgacggacg	gagcgcccc	gccccccgccc	60
ggccgcggc	ccggccggc	catgccttc	tccaacagcc	acaacgcact	gaagctgcgc	120
ttcccgccgc	aggacgagtt	ccccgacctg	agcggccaca	acaaccacat	ggccaagggt	180
ctgacccccc	agctgtacgc	ggagctgcgc	gccaagagca	cgccgagcgg	cttcacgctg	240
gacgacgtca	tccagacagg	cgtggacaac	ccgggcacc	cgtacatcat	gaccgtggc	300
tgcgtggcgg	gcatggagga	gtcctacgaa	gtgttcaagg	atctttcga	ccccatcatc	360
gaggaccggc	acggccgcta	caagcccacg	gatgagcaca	agaccgacct	caaccccgac	420
aacctgcagg	gcggcgacga	cctggacccc	aactacgtgc	tgagctgcgc	ggtgccgcacg	480
ggcccgacga	tccgtggctt	ctgcctcccc	ccgcactgca	gccgcgggga	gcccggcgcc	540
atcgagaagc	tcgcgggtga	agccctgtcc	agcctggacg	gcatgcgc	ggggccatac	600
tacgcgtca	agagcatgac	ggaggcggag	cagcagcagc	tcatgcacga	ccacttcctc	660
ttcgacaagc	ccgtgtcgcc	cctgtgtcg	gcctcgggca	tggcccgca	ctggcccgac	720
gccccgggt	tctggcaca	tgacaataag	accttcctgg	tgtgggtca	cgaggaggac	780
cacctgcggg	tcatctccat	gcagaagggg	ggcaacatga	aggaggtgtt	cacccgcctc	840
tgcacccggcc	tcaccccgat	tgaaactctc	ttcaagtcta	aggactatga	gttcatgtgg	900

aaccctcacc	tgggctacat	cctcacctgc	ccatccaacc	tgggcacccg	gctgcgggca	960
ggtgtgcata	tcaagctgcc	caacctgggc	aagcatgaga	agtctcgga	ggtgcttaag	1020
cggtgcac	ttcagaacgc	aggcacacgc	ggtgtggaca	cggtgcgg	gggggggtc	1080
ttcgacgtct	ccaaacgtga	ccgcctgggc	tttctcagagg	tggagctgg	gcagatgg	1140
gtggacggag	tgaagctgct	catcgagatg	gaggcagegc	tggagcagg	ccaggccatc	1200
gaacgacatca	tgccctgcca	gaaatgaagc	ccggcccaca	cccgacacca	gccctgtgc	1260
ttctctaact	attgcctggg	cagtgcaccc	catgcacccc	tgatgttcgc	cgtctggcga	1320
gcccccttagcc	ttgctgtaga	gacttccgtc	acccttggta	gagttttat	ttttgtggc	1380
taagatactg	ctgtatgtga	aataaaactag	ggttttggcc	tgcctgcgtc	tg	1432

<210> 464
<211> 2073
<212> DNA
<213> Homo sapiens

<400> 464	ggggcggtccc	gggatatttg	gaggataaaag	ggtgatgacc	acacctgccc	gctccggcag	60
	cggcttcggc	tccgtgtcct	ggtggggcct	gtccccggcg	ctggacctgc	aggctgaaag	120
	tccttcgtg	gaccagact	cccaggccga	tacagtgcac	agcaaccccg	agcttagatgt	180
	gtgtgttcgtc	ggctctgtgg	atggacggca	cctgtgcgg	accctgtccc	gagcgaagtt	240
	ctggcctcgc	aggaggttca	acttctttgt	gctggagaat	aatctggaag	ctgtggcccg	300
	acacatgtcg	atcttcagecc	tagccctgga	ggaacccggag	aaatggggc	tgcaagagcg	360
	aagcggagacc	ttcctggaag	tgtggggaa	cgcgtgtcg	cgcggccag	tggccggcct	420
	cgtgcgtgcc	caggccgacc	tgcgtggcga	cctggtcccc	gagcccgacc	gcctggagga	480
	acagctgccc	tggctcagecc	tccggcgcct	caagttccgc	gagcgggatg	ccctggaggc	540
	cgtatccgc	ttctgggctg	ggggcggaaa	agggcccccag	gcgttccca	tgagccgcct	600
	ctgggactcg	cgccctgcgc	actacctggg	ctcccgctac	gacgcccggc	gcgggtgtcag	660
	cgactgggac	ctgcgcgtatga	agctgcgtatga	ccgcggggct	caagtcatcc	accccccagg	720
	gttccgacgc	tggcggaca	cagggcgtgc	ctttaactc	agggactcca	gcgcctatca	780
	tgtgcccac	cggacccctgg	cgtcggctcg	cctccctgagc	taccegtgggg	agcgcgtggc	840
	agcgcgcggg	tactgggggg	acatgcac	ggggcccttc	gtggccttcg	gcatcgaagc	900
	ggacgacgag	agccctctgc	ggacgagcaa	cgccageca	gtcaagaegg	ccggggagat	960
	cactcaaacac	aacgtgacgg	agctgtccg	cgacgtggcc	gcctggggc	gcgcgagagc	1020
	cacccgggggg	gacctggagg	agcagcagca	cgcgaggga	agccggagac	caggactcc	1080

agcagccccg accccggaat cttcacccgt ccacttcctg ccgcgtcaatt ctgctcagac	1140
tctccaccac aagagctgct acaacggccg attccagctc ctctatgtgg cctgtggtat	1200
ggtccatctt ctcateccctg agcttggggc ctgtgtggca cccggaggga acttgattgt	1260
ggaattagecc cggtacctgg tggacgtgcg gcaggagcag ctgcagggat tcaacacccg	1320
ggtcaggagg cttagtcagg cagctggatt tgctccacag accggggcca ggccttcaga	1380
gacccctcgca cgtttctgca agtcccagga atcagctctg ggcaacactg tcccagctgt	1440
ggaacccgga actccgcccc ttgacatctt ggcccagctt cttgaagcca gcaacccagc	1500
ccttgagggc ctgacccagc ctctcgagg tgggacccta cactgtgagc cctgcagct	1560
gcccctctgat tctccaggtt cactctcaga ggttctggct cagcctcagg gggccttggc	1620
tccggccaaac tgtgagtca gactccaaaac tggagtcgtga cccaaacctt agacacccct	1680
tatctccaac ttccaaatgc aggttgttagg atgagaaccc gctgatacca ttctaaatgtcc	1740
gctgctagag ttctcaattt tattctaatac attcccaactc agtacccgc acccccccac	1800
cgggagtggtt ggttagacttt caaattccat ttctgagatt ctatggtcta ttccctagaat	1860
tcttagattgt tctctcgaa ttccaaattc cacttctcgag gctctaagcc cagccctagga	1920
tctgacactg agtctcaggc ccttgacttt ggcccccttg ttcccaggca ccctgtggct	1980
gactaggggc tggggtgtct cctcaccagg gcctggtcag cacccagatg gttcaagtaa	2040
agcaagttgt gtccacccaa aaaaaaaaaaaa aaa	2073

<210> 465
<211> 1124
<212> DNA
<213> Homo sapiens

<400> 465 cggggaaacct gcactgactt ttttctcctt ttggagggag agcagagacc atgtctgaca	60
tagaaggagggt ggttggaaagag tacggaggagg aggaggcagga agaaggcagct gtttgaaggaggc	120
aggaggaggc agcggaaagag gatgtcaagag cagaggctga gaccggaggag accaggggcag	180
aagaagatgta agaagaagag gaagcaaagg aggctgaaga tggcccaatg gaggagtcca	240
aacccaaagcc caggtcgttc atgccccactt tgggtcctcc caagatcccc gatggagaga	300
gagttggactt tgatgacatc caccggaaagc gcatggagaa ggacctgaat gagttgcagg	360
cgctgttca ggttcaattt gagaacaggaa agaaaggaggaa ggaggagctc gtttctctca	420
aagacaggat cgagagacgt cggggcagagg gggccggcagca gcaagcgcattt cggaaatggcagc	480
ggggagaaggaa gggggcggaaac cgcctggctg aagagaggcgc tcgacggagag gaggaggaga	540
acaggaggaa ggctgaggat gaggccccggaa agaagaaggc tttgtccaaatc atgtatgcatt	600

ttgggggtta	catccagaag	caggcccaga	cagagcggaa	aagtgggaag	aggcagactg	660
agcgggaaaa	gaagaagaag	attctggctg	agaggaggaa	ggtgctggcc	attgaccacc	720
tgaatgaaga	tcaagctgagg	gagaaggcca	aggagctgtg	gcagagcata	tataacttgg	780
aggcagagaa	tttcgacactg	caggagaagt	tcaagcaga	gaaatatgag	atcaatgttc	840
tcccaaacag	gatcaacat	aaccagaaaag	tctccaagac	ccgcgggaaag	gctaaggatca	900
ccgggcgctg	gaaatagagc	ctggcctct	tcaccaaaga	tctgtctctc	gtcgccacct	960
gcctccggcc	tgcaactcccc	cagttcccg	gccttcctgg	gcaccccccagg	cagtcctgt	1020
ttggaaatgg	ggagctggcc	tagtgtggag	ccaccactcc	tgcctgcccc	cacacccact	1080
ccacaccagt	aataaaaagc	caccacacac	tgaaaaaaaaa	aaaa		1124

<210> 466
<211> 1066
<212> DNA
<213> Homo sapiens

<400> 466						
accccagctg	ttggggccag	gacacccagt	gagcccatac	ttgtctttt	tgctttttc	60
agactgcgc	atggggctca	gcgcacgggg	atggcagttg	gtgctgaacg	tctggggaa	120
ggtgaggct	gacatccag	gccatggca	ggaagtccctc	atcaggctct	ttaagggtca	180
cccaagact	ctggagaagt	ttgacaagtt	caagcacctg	aagtgcaggg	acgagatgaa	240
ggcatcttag	gacttaaga	agcatggtc	cactgtgctc	accgcctgg	gtggcactct	300
taagaagaag	gggcatcatg	aggcagagat	taagccctg	gcacagtgc	atgccaccaa	360
gcacaagatc	cccgtaagt	acctggagtt	catctggaa	tgcatacatcc	aggttctgca	420
gagcaagcat	cccgggact	ttgggtctga	tgcccagggg	gccatgaaca	aggccctgga	480
gctgttccgg	aaggacatgg	cctccaacta	caaggagctg	ggcttccagg	gttagggcccc	540
tgccgtctcc	accccccaccc	atctggggcc	cgggttcaag	agagagcggg	gtctgtatctc	600
gtgttagccat	atagagtttgc	cttctgagtg	tctgttttg	ttagtagagg	tggcaggag	660
gagctgagg	gttggggctg	gggtgttga	gttggctttg	catgcccacg	gtatgcgcctc	720
cctgtggat	gtcatcaccc	tggaaaccgg	gagtgcctt	ggctcaactgt	gttctgcata	780
gtttggatct	gaattaatttgc	tccttttttc	taaatccaa	ccgaacttct	tccaacctcc	840
aaactggctg	taaccccaa	tccaagccat	taactacacc	tgacagtagc	aattgtctga	900
ttaatcactg	gcccccttggaa	gacagcggaa	tgtcccttttgc	caatgaggag	gagatctggg	960
ctgggcgggc	cagctggggaa	agcatggac	tatctggaa	ttgtgtgtgc	ctccctcagggt	1020
atggcagtga	ctcacctgg	ttaataaaa	caacactgca	catctc		1066

<210> 467
 <211> 3144
 <212> DNA
 <213> Homo sapiens

<400> 467	
atggtcagaa agcctgttgt gtccaccatc tccaaaggag gttacctgca gggaaatgtt	60
aacgggaggc tgccttccct gggacaacaag gagccacactg ggcaggagaa agtgcagctg	120
aaggagaaag tcactttact gagggggagtc tccattatca ttggcaccat cattggagca	180
ggaatcttca tctctcccaa gggcgtgctc cagaacacgg gcagcgtggg catgtctctg	240
accatctgga cggtgtgtgg ggtcctgtca ctatttgag ctttgttta tgctgaattg	300
ggaacaacta taaagaaaatc tggaggtcat tacacatata ttttggaaatg ctttggtcca	360
ttaccagctt ttgtacgagt ctggggggaa ctctctataa tacgcccgtc agtactactgt	420
gtgatatccc tggcatttgg acgctacatt ctggaaaccat tttttattca atgtgaaatc	480
cctgaacttg cgatcaagct cattacagct gtgggcataa ctgttagtcat ggtcctaaat	540
agcatgagtg tcagctggag cggccggatc cagatttct taaccttttgc caagctcaca	600
gcaattctga taattatagt ccctggagtt atgcagctaa ttaaagggtca aacgcagaac	660
ttaaagacg cgttttcagg aagagattca agtattacgc gggtgcact ggcttttat	720
tatggaatgt atgcataatgc tggctggttt tacctcaact ttgttactga agaagtagaa	780
aaccctgaaa aaaccattcc ccttgcataa tgtatatacc tggccattgt caccattggc	840
tatgtgctga caaatgtggc ctactttacg accattaatg ctgaggagct gtcgtttca	900
aatgcgtgg cagtgacctt ttctgagcg ctaactggaa atttctcatt agcagttccg	960
atctttgttgc ccctctctgt ctggcgtcc atgaacgggt gttgtttgc tgtctccagg	1020
ttattctatg ttgcgtctcg agagggtcac cttccagaaa tcctctccat gattcatgtc	1080
cgcaaggcaca tcctcttacc agctgttatt gttttgcacc ctttgcataat gataatgtc	1140
ttctctggag acctcgacag tcttttgaat ttccctcattt ttgcagggtg gctttttatt	1200
gggctggcag ttgcgtggct gatttatctt cgataacaaat gcccagatat gcatcggtcct	1260
ttcaagggtgc cactgttcat cccagctttg ttttccctca catgccttt catgggtgcc	1320
ctttccctctt attcggaccc atttagtaca gggattggct tcgtcatcac tctgactgg	1380
gtccctgegt attatctttt tattatatgg gacaagaaac ccagggtggtt tagaataatg	1440
tcagagaaaa taaccagaac attacaaata atactggaaat ttgttaccaga agaagataag	1500
ttatgaacta atggacttga gatcttggca atctgcctaa ggggagacac aaaataggaa	1560
tttttacttc attttctgaa agtctagaga attacaaactt tgggtataaa caaaaggagt	1620

caggatatttt tattcatata tttagcata ttgcgaactaa ttctcaagaa atttagttat
aactctatgt agttatagaa agtgaatatg cagttattct atgagtcga caattcttgaa
gtctctgata cctacattt ggggttagga gaaaagacta gacaattact atgtggat
tctctacaac atatgttagc acggcaaaga accttcaaata tgaagactga gatTTTCTG
tatatatggg ttttgtaaag atggtttac acactacaga tgtctatact gtgaaaagt
tttcaattc tgaaaaaaag catacatcat gattatggca aagaggagag aaagaaatt
atTTTACATT gacattgcat tgTTTCCCT tagataccaa tttagataac aaacactcat
gcttaatgg attataccca gagcactttg aacaaaggc agtggggatt gttgaataca
ttaagaaga gtttctaggg gctactgttt atgagacaca tccaggagtt atgtttaagt
aaaaatcctt gagaattttat tatgtcagat gtttttcat tcattatcag gaagtttag
ttatctgtca tttttttt tcacatcagt ttgatcagga aagtgtataa cacatcttag
agcaagagtt agtttggat taaatcctca tttagaacaac cacctgttca actaataact
taccctgtat gagtctatct aaacatatgc attttaagcc ttcaaattac attatcaaca
tgagagaaat aaccaacaaa gaagatgttc aaaataatag tcccatatct gtaatcata
ctacatgca ttttagtaat tctgaagttt tttaaatttt tggctatTTT tacacgatga
tgaatTTTGA cagtttgtc attttctta tacatTTTt attcttctgt taaaatatct
cttcagatga aactgtccag attaattagg aaaaggcata tattaacata aaaattgca
aagaaatgtc gctgtaaata agatttacaa ctgatgttca tagaaaattt ccacttctat
atctaggctt tgtagttaat ttccacacct taattatcat tcaacttgc aagagacaa
ctgataaaga gaaaattgaa atgagaatct gtggataagt gtttggatc agaagatgtt
gttttggccag tattagaaaa tactgtgagc cgggcattggt ggcttacatc tgaatcccc
gcactttggg aggctgaggg ggtggatcac ctgagggtcg gaggctttaga ccagcctgac
caacatggag aaaccccatc tctactaaaa atacaaaatt agctggcat ggtggcata
gctggtaatc tcagttattt aggaggttgc ggcaggagaa ttgcttgaac cccggggggc
gagggttgcag tgagccaaga ttgcacact gtactccatc ctgggtgaca aagttagact
ccatctccaa aaaaaaaaaaaa aaaa

<210> 468
<211> 1177
<212> DNA
<213> Homo sapiens

<400> 468
qccaaqqctq qqqcaqqqqa qtcaqcaqaq qcctcqctcq qqcqcccagaqt qgtcctqccq 60

cctgggtctca	cctcgctatg	gttcgtctgc	ctctgcagtg	cgtcctctgg	ggctgcttgc	120
tgaccgtgt	ccatccagaa	ccacccactg	catgcagaga	aaaacagtac	ctaataaaca	180
gtcagtgctg	ttctttgtc	cagccaggac	agaaactgtt	gagtgactgc	acagagtca	240
ctgaaacgga	atgccttct	tgcggtgaaa	gCGaattct	agacacctgg	aacagagaga	300
cacactgcca	ccagcacaaa	tactgcgacc	ccaacctagg	gcttcgggtc	cagcagaagg	360
gcacacctaga	aacagacacc	atctgcacct	gtgaagaagg	ctggactgt	acgagtgagg	420
cctgtgagag	ctgtgtctg	cacccgtcat	gctcgccccg	ctttgggtc	aagcagattg	480
ctacagggg	ttctgatacc	atctgcgacc	cctgcccagt	cggcttcttc	tccaatgtgt	540
catctgttt	cggaaaaatgt	caccccttgg	caagctgtga	gaccaaagac	ctgggtgtc	600
aacaggcagg	cacaaacaag	actgtatgtt	tctgtgttcc	ccaggatcg	ctgagagccc	660
tggtgggtat	ccccatcatc	ttegggatcc	tgtttgccc	cctcttgggt	ctgggtttta	720
tcaaaaaagg	ggccaagaag	ccaaaccaata	aggcccccca	ccccaaagcg	gaaccccagg	780
agatcaattt	tcccgacat	cttcctggct	ccaaacactgc	tgctccagtg	caggagactt	840
tacatggatg	ccaaacgggtc	acccaggagg	atggcaaga	gagtcgcata	tcagtgcagg	900
agagacatgt	aggctgcacc	cacccaggag	tgtggccacg	tgggcaaca	ggcagttggc	960
cagagagcct	ggtgctgctg	ctgctgtggc	gtgagggtga	ggggctggca	ctgactgggc	1020
atagctcccc	gtttctgcct	gcacccctgc	agtttgagac	aggagacactg	gcactggatg	1080
cagaaacagt	tcacccctgaa	gaacccctca	cttcacccctg	gagcccatcc	agtctcccaa	1140
cttgttattaa	agacagagggc	agaaaaaaaaa	aaaaaaaaa			1177

<210> 469
<211> 1323
<212> DNA
<213> Homo sapiens

<400> 469	gtggagggtt	ctgcttatg	agagaaaaaaaa	aaaaacagcc	acaatagaga	ttctgccttc	60
	aaagggttgc	ttgccacactg	aaggcggcac	tgcccagggg	gtgcaagaa	gagacagcag	120
	cggccagctt	ggagggtgcta	actccagagg	ccagcatcg	caactggca	cagaaaggag	180
	ccgcctgggc	agggaccatg	gcacggccac	atccctggtg	gctgtgcgtt	ctggggaccc	240
	tggtggggct	ctcagactact	ccacccccc	agagctgccc	agagaggcac	tactgggctc	300
	agggaaagct	gtgctgcccag	atgtgtgagc	caggaacatt	cctcgtaag	gactgtgacc	360
	agcatagaaa	ggctgcttag	tgtgtatcctt	gcataccggg	ggtctccctc	tctccgtacc	420
	accacacccg	gccccactgt	gagagctgtc	ggcactgtaa	ctcggttctt	ctcggtcgca	480

actgcaccat cactgccaat gctgagtgtg cctgtcgaa tggctggcag tgcagggaca	540
aggagtgcac cgagtgtat cctctccaa acccttcgtt gaccgctcg tgcgtctcagg	600
ccctgagccc acacccttag cccacccact taccttatgt cagttagatg ctggaggcga	660
ggacagctgg gcacatgcag actctggctg acttcaggca gctgctgcc cggactctct	720
ctaccctactg gccaccccaa agatccctgt gcagctccga ttttattcgc atccttgtga	780
tcttctctgg aatgttcctt gttttcaccc tggccggggc cctgttcctc catcaacgaa	840
ggaaatatag atcaaacaaa ggagaaagtc ctgtggagcc tgcagagcct tgtcggtaca	900
gctgccccag ggaggaggag ggcagcacca tccccatcca ggaggattac cgaaaaccgg	960
agcctgcctg ctccccctga gccagcacct gcgggagctg cactacagcc ctggcctcca	1020
ccccccaccc gcccggaccatc caagggagag tgagacctgg cagccacaac tgcagtccca	1080
tctcttgta agggcccttt cctgtgtaca cgtgacagag tgcctttcg agactggcag	1140
ggacgaggac aaatatggat gaggtggaga gtggaaagca ggagcccaagc cagctgcgcc	1200
tgcgctgcag gaggccgggg gctctgggtt taaaacacac ttcctgctgc gaaagaccca	1260
catgctacaa gacgggcaaa ataaagtgc acatgaccac cctgaaaaaa aaaaaaaaaa	1320
aaa	1323

<210> 470
 <211> 2781
 <212> DNA
 <213> Homo sapiens

<400> 470 gaaaggcttg cacagggtga aagctttgtc tctctgctgc tgtaacaggg actagcacag	60
acacacggat gagtggggtc atttccagat attaggtcac agcagaagca gccaaatgg	120
atccccatgtg cactatggga ctgagtaaca ttctttgt gatggccttc ctgctctgt	180
gtgctgctcc tctgaagatt caagtttatt tcaatgagac tgcagacctg ccatgccaat	240
ttgcaaaactc tcaaaaccaa agcctgagtg agctagtagt atttggcag gaccaggaaa	300
acttgggttc gaatgaggtt tacttaggca aagagaaatt tgacagtgtt cattccaatg	360
atatggccg cacaagttt gattcggaca gtggaccc tggacttac aatcttcaga	420
tcaaggacaa gggcttgtat caatgtatca tccatcacaa aaagcccaca ggaatgattc	480
gcatccacca gatgaattct gaactgtcg tgcttgctaa cttagtcaa cctgaaatag	540
taccaatttc taatataaca gaaaatgtt acataaaattt gacctgctca tctatacacg	600
gttaccacaga acctaagaag atgagtgttt tgctaaagac caagaattca actatcgat	660
atgatggat tatgcagaaa tctcaagata atgtcacaga actgtacgac gtttccatca	720

gcttgcgtt	ttcattccct	gatgttacga	gcaatatgac	catcttcgt	attctggaaa	780
ctgacaagac	ggggctttta	tcttcacctt	tctctataga	gcttgaggac	cctcgccctc	840
ccccagacca	catttcctgg	attacagctg	tacttccaa	agttattata	tgtgtgatgg	900
ttttctgtc	aattcttatg	aatatggaga	agaagaagcg	gcctcgcaac	tcttataaaat	960
gtggAACCA	cacaatggag	agggaaagaga	gtgaacagac	caagaaaaga	aaaaaaatcc	1020
atataccctga	aaagatctgt	gaagcccagc	gtgtttttaa	aagttcgaag	acatcttcat	1080
gcgcacaaaag	tgatacatgt	tttaatcaa	agagtaaagc	ccatacaagt	attcattttt	1140
tctaccctt	ccttgcgt	ttcctggca	accttttta	tttctccag	aaggcaaaaa	1200
gacattacca	tgagtaataa	gggggctcca	ggactccctc	taagtggaa	agcctccctg	1260
taactccagc	tctgctccgt	atgccaagag	gagactttta	ttctcttact	gcttccttcc	1320
acttcagagc	acacttatgg	gccaagccca	gcttaatggc	tcatgcctg	gaaaataaaat	1380
tttaggaccaa	tacctccctcc	agatcagatt	cttctcttaa	tttcatagat	tgtgtttttt	1440
tttaataga	cctctcaatt	tctggaaaac	tgccctttat	ctgcccagaa	ttctaagctg	1500
gtgccccact	gaatcttgc	tacctgtac	taaacaacta	cctccctcagt	ctgggtggga	1560
cttatgtatt	tatgaccta	tagtgttaat	atcttggaaac	atagagatct	atgtactgt	1620
atagtgtgt	tactatgtct	tagagaaaag	tctaccctg	ctaaggagtt	ctcatccctc	1680
tgtcagggtc	agtaaggaaa	acgggtggct	agggtacagg	caacaatgag	cagaccaacc	1740
taaaatttggg	gaaatttagga	gagggcagaga	tagaacctgg	agccacttct	atctgggctg	1800
ttgctaataat	tgaggaggct	tgccccaccc	aacaagccat	agtggagaga	actgaataaa	1860
caggaaaatg	ccagagcttg	tgaaccctgt	ttctcttga	gaactgacta	gtgagatggc	1920
ctggggaaagc	tgtgaaagaa	ccaaaagaga	tcacaataact	aaaaagagag	agagagagaa	1980
aaaagagaga	tcttgatcca	cagaaataaca	tgaaatgtct	ggtctgtcca	ccccatcaac	2040
aagtcttggaa	acaagcaaca	gatggatgt	ctgtccaaat	ggacataaga	cagacagcag	2100
tttccctgtt	ggtcaggagg	gggttttgg	gatacccaag	ttattggat	gtcatcttcc	2160
tggaaagcaga	gctggggagg	gagagccatc	accttgataa	tggatgaat	ggaaggaggc	2220
tttaggactt	ccactccctgg	ctgagagagg	aagagctgca	acggaattag	gaagaccaag	2280
acacagatca	cccggggctt	acttagccct	cagatgtct	acgggaaacgt	gggctggccc	2340
agcatagggc	tagcaaattt	gagttggatg	attgttttg	ctcaaggcaa	ccagaggaaa	2400
cttgcatata	gagacagata	tactgggaga	aatgactttg	aaaacctggc	tctaaagggt	2460
gatcaactaag	ggatggggca	gtctctgccc	aaacataaaag	agaactctgg	ggagcctgag	2520
ccacaaaaat	gttcccttat	tttatgtaaa	ccctcaaggg	ttatagactg	ccatgctaga	2580

caagcttgtc catgtaatat tcccatgttt ttaccctgcc cctgccttga ttagactcct	2640
agcacctggc tagttctaa catgttttgt gcagcacagt tttataaaa tgcttgttac	2700
attcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	2760
aaaaaaaaaa aaaaaaaaaa a	2781
<210> 471	
<211> 1363	
<212> DNA	
<213> Homo sapiens	
<400> 471	
gaggaaaaagc ttccggactg ctgaaggccc agcaggaaga gaggctggat gagatcaaca	60
agcaattcct agacgatccc aaatatagca gtgtatgagga tctgcctcc aaacttggaa	120
gcttcaaagg tgagggggaa actgttaggcg gtggagacag ggctgggggt aggagggtta	180
ggatttccac aagaacaagg caggaacacg agagataaaa agtttacttt tggatgttgc	240
aaaggggaaac ctgcctttat tgccttcctg ccacactgcg gtcccttcc cgggcctgcc	300
tcttcagca tcccccttag ctcccttacac cctagcgggg cccctcaact ccccaacccc	360
acttcctctg ctcgccttc ctcttccttc cacgttgc tctccaccta gcagttgggt	420
ggcaacccct tcctcaactca cccagagaaa tacatggagt ttgaccttaa tggaaatggc	480
gatattggtg agaaacgggt gatttgcggg ggcagggtgg tgcgcaggcc taagaagaca	540
gagggtctctc ctatcatgtc catccctcat gatttggag gggccacc taccacatgt	600
ggaggaagga gaatggggat gcgaaagtgg gagaggagag agagggtctc cccaccttct	660
ccccatcccc atccctgtcc cccagatatac atgtccctga aacgaatgtc ggagaaacctt	720
ggagtcccca agactcacct agagctaaag aaattaattt gagaggtgtc cagttggctcc	780
ggggagacgt tcagctaccc tgactttctc aggatgtgc tggcaagag atctgcacatc	840
ctaaaaatgt gagtgcataat ttccaaaccc cccgttactt acctgttttc tcctccccca	900
tccttacccct tgcacccagg ctcaacattt ctacacgttg cccatccatcc ctctttccat	960
ccttagaggg acccttccaa ggtcccgacc ccatccctat ccatagtctt ggtccccaga	1020
aactccaaacc cctgccttc ctcttcccccc ttccacccttc acatccccat ccccttctag	1080
cctttcttag cacccttatga ttatccct tgagaggagt gttccctgtat ccctgtgcct	1140
cttcccatct caaccaggat cctgtatgtat gaggaaaaag cgagagaaaa gaaaaaggcca	1200
acaggcccccc cagccaaagaa agctatctct gagttgcctt gatggatggaa gaaaaggat	1260
gatggatgtt aaggggcttc taatgaccca gatatggaaa cagaagacaa aattgtaaac	1320
cagagtcaac aaattaaata aattaccccc tcctccagat caa	1363

<210> 472
<211> 1080
<212> DNA
<213> Homo sapiens

<400> 472
caggcgcatc agggcctgct ctagggctat aagttccca tagattttc tatacatgga 60
ataggcctcc ttggagatgg cggttatttc caggtggcg cagatgaact tgatcatgga 120
aaagctgttc acaaaggcaa gcctccctga ccgttccag taggtgttga tgcacaggga 180
caccaaggc acgttcatga caaactttc ctcaaaccgg tggatcatag cctcgactac 240
gtagaagaag gctggatagg cagtgtcata ggcagttatcc tgcacagttt caataacggc 300
ctgatccacc acgtggggca gagatgtggc ggtctaaac tgctgcccc gggcttgg 360
aatgcagct gggccaggg gagtcggcag gttaccacc attagccgt gcacagccct 420
gtgcctggcc ctctccccc catccctgc aatgtaaata tcataaaggg ggtgcagctc 480
cagccgcagc aggtcataat tggacgggtg gaggaagtct tcggtggca gcccgcactt 540
gagagctata tctgtcacgg gggctgcata cttgttatca tagaactcgt ccacaataac 600
aagcacattc atgtgattgg gcctctgtg ttgcaggag taggtctcgc gctgtctcg 660
cggggccggg gcccgttga ggctgttag ggtatggcg ggtgtgttga gtcgggggtg 720
acagagaacc ttgagagcat tctgttagtt aaacgcgagg agaaggtt tcttggttac 780
gatccatgcc tccacccggta gctgctgtgt ggggttgtcc agcattttga tggccggcga 840
ggtcgtgtac ttgggattgg gcataaacag gcccactggg aaatagtagc tttactgtac 900
tcttctgttg aggggtatg gggactgtg gtcattgtac atcttttgc ggcttccac 960
ggccaccgcg tgggtgcccc gcttgtatgc ggcggcttag atcggcaccc ggggctgatc 1020
ctcgaccctt gcccggcactt cggcggcactt agacttgggtt ctggggctt tttccgggtt 1080

<210> 473
<211> 195
<212> DNA
<213> Homo sapiens

<400> 473
ccctgaaggta gaaccgccta ccaccccttc ttcttgctgg acgaggaccc ttctacggac 60
tcgtctgggtt tcttggcccc ctctggtagg actgggcac cggtgcccttc ttaggagctg 120
tccgaggggta ccctctggcc cgataccggg gggccggggc cgggttggtc cagggcccttc 180
acttcgggtct cccct 195

<210> 474

<211> 223
<212> DNA
<213> Homo sapiens

<400> 474
aacggaaagt ccgaatccta cacatttcta gtcgtgacgg ctagttttt ggtggtcats 60
gctgggtgg tcaacatata tctccagata caggatgta gaaaaaaa ggaggacaag 120
tctaacggaa taatatccga tcataatataat ggagggatatac caggatcatca ttgtgtatca 180
aaagatgatt tgtacaacag ggaaggatac ggttttaaag gtt 223

<210> 475
<211> 249
<212> DNA
<213> Homo sapiens

<400> 475
tcataaggta acgatgtac ttttttaat tccaagatgg tttttcttg ttagtcttt 60
gttgcactgc tggttcccaa aagttcgaa aaacgattgt gtgaagattt tatgacgttg 120
gttgcactgt tcatgagatt ctgcgttacg tgcgtatggg attcgctgg tgcgttcaag 180
atgagatcgt tactgtgtct gcgcgttgcg tctcttactg gcattctctc ggctgcctct 240
tgttttcat 249

<210> 476
<211> 185
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (54)..(54)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, t or u

<400> 476
cgagttctgc caggacatct ttctcggtt tctcggttgc atcctcggtc actngttcaa 60
angttttgag ggattcttcg gccaaactctg gaaacagcgg gtctcccagn ctcagctgac 120

tgttaacctc cttcctnaac atagtctgca ggaacgtcggt gccttggtc acgggtgtct 180
cgggc 185

<210> 477
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (34)..(35)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (50)..(50)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (103)..(103)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (116)..(116)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (122)..(122)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (134)..(135)
<223> n is a, c, g, t or u

```
<220>
<221> misc_feature
<222> (149)..(149)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (152)..(152)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (169)..(169)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (172)..(172)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (197)..(197)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (204)..(204)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (257)..(257)
<223> n is a, c, g, t or u

<400> 477
tctccatagg ngagcantga ggcaagtct gnanngccgc catggcctgn ctgcagccat      60
tggtggtctt agggaaaggct gagttcttgg taaagaactc tanattcctn tagcanatat
anatcatctt tctnnntaagt tcatccttnt tngcacggnc cttagcctnc antgcacccc      120
cnaacttgtt agcggcnccc ttgntcacat catgcagctc cttataacaa gccatccaca      180
tctcccgctt atcctcnggt acaatgtagt tctcatacat gctctgcata gttagcccaa      240
tctcccgctt atcctcnggt acaatgtagt tctcatacat gctctgcata gttagcccaa      300

<210> 478
<211> 363
<212> DNA
```

<213> Homo sapiens

<400> 478

cttgacagcc	cgccaggcag	catccctgat	attccttgcg	gtatatggtg	tgtatgtcgts	60
tggaggcaac	catggcggca	cattgtcttc	cgtgtctaaa	agatggccgg	acaaggcagc	120
ccgttttctc	ccgccttcgc	tgtatgcgtc	catccagcct	ctgtttcat	cacccctgtc	180
ttgcccccaa	ggttgctgat	ctcttgagta	tgactcttct	ggtaccaatc	tctcagaagc	240
cccactggat	ggaggccccg	gcccagggtc	ctgatcatgc	tcgcccgtag	tctgtacatt	300
atctccccgc	tcattgtcg	gtactgtct	agagtcccc	tgtccttcaa	atgattccat	360
ggt						363

<210> 479

<211> 600

<212> DNA

<213> Homo sapiens

<400> 479

gagttagaaa	tttaagagat	cctcggtaa	aacatctgg	gtccggggga	taatggagtc	60
aacatccagg	cttggcaca	tctgctcaa	caggaggcgc	agccctgtcat	tttcagatga	120
tttggcagca	gccacctcac	ggtagtgctg	cagcagttgc	ttaaacttgg	cccgccattt	180
tctggaagcc	acccgattct	tgtatcgctt	tatttctagt	tcagaatcgc	attccctccag	240
cgattctggc	tgttgggtt	tccgtgtcg	tcgtccggg	gcagccactg	gtgcaggctg	300
tggaacacca	atgtctgcta	gctgttgcc	ttgggttagcc	ccggggcaag	caaacaccac	360
tgctgtctgt	gtttgaacag	tagaattgtc	tccaggttga	ggtgcttctc	ccccggcttg	420
tttagtctgt	tgattctggg	ttatgtcgga	gactggaaac	agctgagggt	ctgcataagc	480
ttgataagca	ttctcaggag	caggctgagg	ggcagaaaaac	cacgaccagg	tcggagcggt	540
tgaaacatga	taggcagtt	gtggcccttg	tggcagagc	tctggcagca	ccggccacag	600

<210> 480

<211> 146

<212> DNA

<213> Homo sapiens

<400> 480

ccctgaagg	gaaccgctta	ccacccctc	ttcttgctgg	acgaggaccc	ttctacggac	60
tegtctgggt	tcttggccc	ctctggtagg	actgggcac	cggtccctc	ttaggagctg	120
tccgagggg	ccctctggcc	cgatac				146

<210> 481

<211> 66

<212> DNA

<213> Homo sapiens

<400> 481
ccttagggag accgaagtga aggcctgga ccaacccggc cggggcccc cggtatcgaa 60
ccagag 66

<210> 482
<211> 176
<212> DNA
<213> Homo sapiens

<400> 482
cctctacagt caaacagatt aaggttcgag tggacatgct gcggcataga atcaaggagc 60
acatgctgaa aaaatataacc cagacggaag agaaattcac tggcgccctt aatatgtatgg 120
gaggatgttt gcagaatgcc ttagatatct tagataaggt tcataggct ttcgag 176

<210> 483
<211> 185
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (54)..(54)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, t or u

<400> 483
cgagttctgc caggacatct ttctcggtt ttcgttgca atccctcggtc actngttcaa 60
angtttttag ggattcttcg gccaaactctg gaaacagcgg gtctccagn ctcagctgac 120
tgttaacctc ctccctnaac atagtcgtca ggaacgtcgt ggccttggtc acgggtgtct 180
ccggcc 185

<210> 484
<211> 641
<212> DNA
<213> Homo sapiens

<400> 484
atttaaattc tgcaagtcag agattcacac agaagtctgg acacaattca gaagagccac 60
ccagaaggag acaacaatgt ccctgctacc cgtgcacatac acagaggctg cctcttgc 120
taactggttct actgtgacaa tcaaaggcg accacttgcc tggttcttga atgaaccata 180
tctgcagggtg gatccacata ctgagatgaa ggaggaaatca gacattgtct tccatttcca 240
agtgtgcattt ggtcgtcgtag tggcatgaa cagccgttag tatggggctt ggaagcagca 300
ggtggaaatcc aagaatatgc cctttcagga tggccaagaa tttgaactga gcatctcagt 360
gctgccatg aagtaccagg taatggtcaa tggccaatcc tcttacacct ttgaccatag 420
aatcaagccctt gaggctgtga agatgggtca agtgtggaga gatatctccc tgaccaaatt 480
taatgtcagc tatttaaaga gataaccaga cttcatgtt ccaaggaatc cctgtctcta 540
cgtgaacttg ggattccaaa gccagctaac agcatgatct ttctctactt caatccttac 600
tcctgctcat taaaacttaa tcaaacttca aaaaaaaaaa a 641

<210> 485
<211> 2165
<212> DNA
<213> Homo sapiens

<400> 485
tgccgcgcgg ctgctgctgc gcaggccccag tgctgcgcctt cgccgcagag ggcgtctgcgg 60
tgacagctca gtcagtttag ctctgtgtgc caggcgctcg ggagggggta gctcttctag 120
tagtgctcg cgtcagacat ggccggaggcg atggatttgg gcaaagaccc caacggggccc 180
accatttcctt cgactctgtt cgtgaggggac gacggcgactt ccatgtccctt ctacgtgcgg 240
cccaagcccg ccaagcgctcg gctgtcgacg ctcatcctgc acggccgcgg caccgtgtgc 300
cgagtgcagg agcccggggc cgtgtcgctg gcccagcccg gggaggcgctt ggccgaggcc 360
tcgggtgatt tcatctccac gcagcacatc ctggactcgcc tggagcgcaa cgagaggctg 420
gagctggagg cctatcggtt gggcccccgcg tggccggccgg acaccggctc ggaagcaaag 480
ccccggggccc tggccgaggcg cgcccgccgg acggccacgc cggccggatc 540
gccttacgg atgcggacga ctagccatc cttaacctcg tgaaggaaaa tggccgcctcg 600
cccaagtcgg tcacaggtaa cgccttgcgg aaagcgatgg agaagagactc gctcaacgc 660
caactgtggc agtccctgaa ggaccgcatac ctcaagcacc tggccggccca ggagcataag 720
taacctgtgg gggacgcgcg cgtgagcccc tccctccaga agtcaagcg gaaggccgg 780
gaggaccggc agggccgcggaa tagcgccggaa ccacagaata agagaactcc agatggctt 840
gaagaagagt atgtgaagga agaaatcccg gagaatgaag aagcagtcaa aaagatgttt 900

```
<210> 486  
<211> 1098  
<212> DNA  
<213> Homo sapiens
```

```

<400> 486
atggccgtca tggcgccccg aacctcttc ctgtactct cgggggcctt ggccctgacc 60
cagacacctggg cgggtccca ctccatgagg tatttttca catccgtgtc cggcccccgc 120
cgcgccccggc cccgttcat cgccgtggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggccgc cgtggataga gcaggagggg 240
cccgagtttgggaccggaa qacacggaaat gtggaaaggcc agtcacaaqac tgacccggatq 300

```

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag	360
ataatgtatg gtcgcacgt ggggtcgac gggcgttcc tccgcgggta cggcaggac	420
gcctacgacg gcaaggattt catgcctctg aacgaggacc tgcgctcttg gaccgcggcg	480
gacatggccgg ctcagatcac caagcgcaag tgggaggcgg cccatgaggc ggagcagttt	540
agagcctacc tggatggcac gtgcgtggag tggctccgca gataccttggaa gaacgggaag	600
gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc catctctgac	660
catgaggcca ccctgagggtg ctggccctg ggcttctacc ctgcggagat cacactgacc	720
tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac caggcctgca	780
ggggatggaa cttccagaa gtggcggtc gtgtgggtc cttctggaga ggagcagaga	840
tacacctgcc atgtcagca tgagggtctg cccaagcccc tcacccttag atggagctg	900
tcttcccagc ccaccatccc catgtggc atcattgtct gcctgggtct cttggagct	960
gtgtactgtc gagctgtgtt cgctgccgtt atgtggagga ggaagagctc agatagaaaa	1020
ggagggagtt acactcaggc tgcaagcagt gacagtgcctt aggctctga tgtgtccctc	1080
acagcttgc aagtgtga	1098

<210> 487	
<211> 242	
<212> DNA	
<213> Homo sapiens	
<400> 487	
ttttttttt tttttctgat tctatgtttt tgcatgaccc tggatggatgg taaaatcaatt	60
caacaagaag gttgaattgt tacccagtaa ctttattttt tctttagggta tggaaaattgg	120
ccactgaatg ttctgttcca aaattcccta agcaagttaa gctaaatatc tggattaaaa	180
gatttatttt gatttaaaaa tggacactac atatctggct tattttgtct gccctcgatc	240
cg	242

<210> 488	
<211> 3415	
<212> DNA	
<213> Homo sapiens	
<400> 488	
ccccctcccc tcctgcagcc tcctgcgcgg cggcgagctg gggatggag ctgcgcagcg	60
ggagcgtggg cagccaggcg gtggcgccga ggatggatgg ggacagccga gatggcgccg	120
gcggcaagga cggccacccgg tcggaggact acgagaacct gcccactgcg gctcccgat	180
ccacccacat gacagcaggc gcatggccg ggatctggaa gactcgatc atgtacccgg	240
tggactcggtt gaagacacga atgcagatgg ttagtccaga tcccaagcc cagtcaccaa	300

gtatctacgg agccctcaag aaaatcatgc ggaccgaagg cttctggagg cccttgcgag	360
gcgtcaacgt catgatcatg ggtgcagggc cagccccatgc catgtatTTT gcctgtatgc	420
aaaacatgaa aaggacttta aatgcacgtt tccaccacca agggaaacacg cacctagcca	480
acggtatTTT gaaagcgTTT gtctggagtt agaaaattct cttcttcaac acgtccctcc	540
ccaggggttt cctccctgtg acccagccgc ctgcacttcg gccegcttgc tcacgaataa	600
agaactcaga gttgtgtgtg caatgcacac ccagacacac gcacgcacac acacgcgcgc	660
gcacacacat gtttttttgc tgttccccctc cgctttctga agcctgggg aaaaatcagtgc	720
acagaggcgc tctctgggtt ttattgttat gtgggttttgc ttttgtatTTT tttttgttttgc	780
ttttgtttttt aaacattcaa aagcaattaa tgatcagaca taggagaaac cctgaataga	840
aacaaaactt ttgaatgcgtt gattcaaaaa agaaaaaaag ttatctggac agcttcttttgc	900
agactattta aaaactggta caacaggctc ctacaacgc aagatctaactaa	960
aaggtaaga agttttatgg ctgacaaagg actcgcgcga cgcagaaggc ctttcccacc	1020
ttaagcttcc ggggatctgg gaattttacc cccattctct tctgtttgtc tgagtctcat	1080
ctctctgcaa gcaagggctg aaatcatTTT gtttgggtgt tttgaggggag agaggcgggg	1140
tgggggggtg caaatctgcg acgagctttt acgtaaggca tgtttatttgc gggaggggctg	1200
agctttttattt ttctctctc cagtggggtt ggctttatttgc gtttgggttggaa	1260
atggaaatat ggatagcagc ataaagtact ttatTTTtga caaaattcat tttttcaac	1320
aatggagaca tagatttgac ccacaataac ttctccccct ctcttttac tctgctcaaa	1380
aagcatctct cttccattt cccaaaccttgc tgcataaggta tgccctggctg gtttgcagat	1440
atttggctcg ctttggtaaaa attggccatt agtgcatttgc ttgagatgtatgc ctctaaagag	1500
ctatggccctg acctaccctt gattctatga cattggggcc ctcttttgc tgaaactgccc	1560
ttacgtatgtt gttttacttcc ttgaaagaga ttggacggaa tccatTTTtgc gccaagtgt	1620
gccctgcact gtttctgcaa tatgtgggtt atgctgtgtt gatcttgc ggaatgatta	1680
taagtgtgtg tttgtatgggg gagttgggtat tacatgcatttgc gtttgcagat	1740
tttcttattt cttccacattt cccgtggta tttaatttgc gggcagttgc caccgcaaag	1800
ggaggaaactt caaagccgaa agcaaaaatttgc caggcctgtat tctggcttttgc gggcagttgc	1860
gttcttgcggaa ccaggcctgaa cccgacttgc agatggggcc agtccctgtc ttttgcagat	1920
tgaccctggaa aatctacaaa atgcagatttgc ttctgtatTC tcttttgc gcccagtttgc	1980
ttttttttttt tttttttttt tttttaaagc ctggattgtatgc accagatTTTtgc ttttttgc	2040
ccttctcaggc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc	2100

taatgtgttag	acaaaggcga	gggacaagag	agagttaaca	tctagacagt	ggaaaaagcc	2160
atggtgtgtg	gtttctggga	accaccaaca	cttgagggtt	tagtttttc	ccagggttga	2220
ctacaagaaa	gaaaaccatg	tttttgcaga	attaaaatgt	ggttgagtgt	gcctaaatta	2280
accatccccca	tttttatcat	atttccacca	tcacttcagg	gttttaagag	tcagtgtca	2340
cctggccgga	gctggtagta	cattttgctt	cttagaaagc	taagtctgg	gttccgtctg	2400
atttttaggtt	ccaggaacct	cctgagaaca	cccgatcgca	gagggttaatt	ttctggagtt	2460
tgttttgcag	ggatagctgg	gagttatggcc	accctgtcc	acgatgcggt	aatgaatcca	2520
gcagaagtgg	tgaagcagcg	cttgcagatg	tacaactcg	agcacccggc	agcaatcagc	2580
tgcacccgga	cggtgtggag	gaccgagggg	ttgggggcct	tctaccggag	ctacaccacg	2640
cagctgacca	tgaacatccc	cttccagttcc	atccacttca	tcaccttatga	gttccgtcag	2700
gagcaggctca	accccccacccg	gacctacaac	ccgcagtc	acatcatctc	aggcgggctg	2760
geccccccccc	tcgcgcggc	cgccacgacc	ccccctggaa	tctgtaaagac	ccttctgaac	2820
actcaggaga	acgtggccct	ctcgctggcc	aacatcageg	gccggctgtc	gggtatggcc	2880
aatgccttcc	ggacgggtga	ccagctcaac	ggcctggccg	gctacttcaa	aggcatccag	2940
gcgcgtgtca	tctaccagat	gccctccacc	gccatttctt	ggtctgtcta	tgagttcttc	3000
aagtactttc	tcaccaageg	ccagctggaa	aatcgagctc	catactaaag	gaagggtatca	3060
tagaactttt	tcttaaagtc	attctctgcc	tgcacccagc	cccttgcctt	ctccctcacac	3120
gtagatcatt	tttttttttg	caggggtgtc	cctatggcc	ctctgtctcc	caatgcctta	3180
gagagaggag	gggacggcac	ggccgctcac	cggaaggctg	tgtgcgggga	catccgaggt	3240
gggtggggac	aggaaggact	tggaaagggg	agcgagaaat	tgtttttct	tttccctccct	3300
gggcagaatg	tagttttct	gttcactgt	ggcagcctcc	tccctggatc	cttagatccc	3360
agaggaggga	agaaaatttg	cagtgactga	aaacagtaaa	aaaaaaaaaa	aaaaaa	3415

<210> 489
<211> 2473
<212> DNA
<213> Homo sapiens

<400> 489	aatcgcgaaa	cccgccgagc	ggcgcgcgtgg	ctatcgagcg	agcggggcgg	aaccgggagt	60
tgccgcgcgc	ctcgccgcgc	gggcgtccgtc	ggggccgcag	ccccctgggt	cgccctcccg	120	
tgccctcgccc	ggggacaccc	tggccgtgg	caccctggcc	gtggggcaccc	gcggggccgc	180	
gcgcggggcgc	tgcgcggcgg	gggcggccgc	atgaagggtca	cgtcgtcg	cgggcgccag	240	
ctgcgcgaaga	tgcctccgaa	ggagggggcg	gcccgtcg	tggtgctcg	ctgcggccccc	300	

tatctggcct	tegetgcctc	gaacgtgcgc	ggctcgctca	acgtcaacct	caactcggtg	360
gtgctggcgc	gggccgggg	cggcgcggtg	tccggcgct	acgtgctgcc	cgacgaggcg	420
ggcgcgcg	ggctctgca	ggagggcgc	ggcggcgteg	cgccgctggt	ggtgtctggac	480
caggcagecc	gccaactggca	gaagctgcga	gaggagagcg	ccgcgcgtgt	cgtcctcacc	540
tcgctactcg	cttgcctacc	cgcggcccg	cgggtctact	tcctcaaagg	gggatatgag	600
actttctact	cggaatatcc	ttagtgttg	gtggatgtaa	aacccatttc	acaagagaag	660
attgagagtg	agagagccct	catcagccag	tgtggaaaac	cagtggtaaa	tgtcagctac	720
aggccagctt	atgaccaggg	tggcccgatt	gaaatccctc	ccttcctcta	ccttggaaagt	780
gcctaccatg	catccaaatg	cggatccctc	gccaacttgc	acatcacagc	cctgtctgaat	840
gtctcccgac	ggacctccga	ggcctgcata	acccacctac	actacaaatg	gatccctgtg	900
gaagacagcc	acacggctga	cattagctcc	cactttcaag	aagcaataga	cttcattgac	960
tgtgtcaggg	aaaagggagg	caaggcctctg	gtccactgtg	aggctggat	ctccgggttca	1020
cccaccatct	gcatggctta	ccttatgaag	accaagcagt	tccgcctgaa	ggaggccttc	1080
gattacatca	agcagaggag	gagcatggtc	tcgccttact	ttggcttcat	ggcccgctc	1140
ctgcagtagc	aatctgagat	cctgccttc	acgcggcaacc	cccagcttc	ctcctgccaa	1200
ggggaggcag	caggctcttc	actgataggc	cattgcaga	cactgagccc	tgacatgcag	1260
ggtgcctact	gcacatcccc	tgcctcggt	ctggcacccgg	tgcctaccca	ctcaacagtc	1320
tcagagctca	gcagaagccc	tgtggcaacg	gccacatct	gctaaaaactg	ggatggagga	1380
atcgccccag	ccccaaagac	aactgtgatt	tttggtttta	agactcatgg	acatttcata	1440
cctgtcaat	actgaagacc	tcattctgtc	atgctcccc	agtggatag	ttagtggtca	1500
ccaggcttgc	aaatgaactt	cagacggacc	tcagggttag	ttctcgggac	tgaaggaagg	1560
ccaagccatt	acgggagcac	agcatgtgt	gactactgt	cttcagacc	cctgcctct	1620
tgggactgcc	cagtccttgc	acctcagagt	tcgccttttc	atttcaga	taagccaata	1680
aatacctgca	gcaacgtggg	agaaagaagt	tgctggacca	ggagaaaagg	cagttatgaa	1740
gccaattcat	tttgaaggaa	gcacaatttc	caccttattt	tttgaacttt	ggcagtttca	1800
atgtctgtct	ctgttgcctc	ggggcataag	ctgatcacccg	tctagttggg	aaagtccaccc	1860
tacagggttt	gtagggacat	gatcagcatc	ctgatttga	ccctgaaatg	tttgttagac	1920
acccctttgg	gtccaaatgag	gtagttggtt	gaagtagcaa	gatgtggct	tttctggatt	1980
ttttttgcctca	tgggttcttc	actgacccttgc	gactttggca	tgattcttag	tcataacttgc	2040
acttgcgtca	ttccacccct	tctcagagca	actcttcctt	tggggaaaaga	gttcttcaga	2100
tcatacggcca	aaaaagtcat	accttcgagg	tggtagcagt	agattccagg	aggagaaggg	2160

taccttcttag gtatcctggg tcagtgccgg tgcaaaactgg tttcctcagc tgccctgtcc	2220
tctgtgtgtct tatgtctctt gtgacaattt ttttcctccc tgccccctgga ggttgtcttc	2280
aactgtggac ttctgggatt tgcaagatttt gcaacgtggt actactttt tttctttttg	2340
tctgttagtt atttctccag gggaaaaggc aataatttc taagaccgt gtgaatgtga	2400
agaaaaagcg tatgttactg gttgttggg ttgttcttgc tttttatatg taaaataaaa	2460
atagtgaaag gag	2473

<210> 490
<211> 1216
<212> DNA
<213> Homo sapiens

<400> 490 gggttcaact caacttggat ctgtgtgaa aaattgtgac atttcagtttac atctggtaga	60
gggtacact tttatcttc acatgaattt ttgtatgttc ttccctgtgc taaatttcag	120
aaaacaccac agggatggcg agaagtattt gttgacattt atccacaggt ttctgataaa	180
ctgagggtttg ttttgcacc ttctgcacc ccagcagaag ctttcataca acatgacgaa	240
acaagggtac atgttgaagt gtgtcctgtat gctgggtta tcategagga actttctcaa	300
cgcattgcat taactggagg tgctgactt gttgttgatt atggcatgaa tggaaacaaag	360
acagatacct tcagagggtt ttgcgaccac aagcttcatg atgtcttaat tgccccagga	420
acagcagatc taacagctga tggacttc agttatgtc gaagaatggc acaggaaaa	480
gtagcctctc tggcccaat aaaacaacac acattttaa aaaatatggg tattgtatgtc	540
cggctgaagg ttcttttaga taaatcaaat gagccatcg tgaggcagca gttacttcaa	600
ggatatgata tgtaatgaa tccaaagaag atgggagaga gatttaactt tttgccttg	660
ctaccttcatc agagacttca aggttggaga tatcagagga atgcacgtca gtc当地accc	720
tttgcatccg ttgtatgtgg gtttagtggaa cttgttggc agtgtatattt cagcttggac	780
attttacccct tcaatcgcc caagaaatca aaataaaggaa aacacatttc atatactgca	840
ggtaacaaaa gtc当地aaatgtat tttatctttt cacagcaaga acagtccatg ttgttatataa	900
tacaaccaac attatagaac tttaggggtt gtgactggct ttgggtcaaa tgggtgtca	960
agctaataag ttatgtgaa actgagttt ctttaactta caaagctgt tgccatattt	1020
ctattttatt taaaaagta aacatgcggc tggcgtgggt ggctcatgcc tggatccca	1080
gcacttggg aggctgaggt gggcatatca cctgggtca gcagttaaag accagcctga	1140
ccaaaatgga gaaaccccat ctctactaaa aataaaaaac tagccggta tgggtgtaca	1200
tgcctgtaat cccagc	1216

<210> 491
<211> 5590
<212> DNA
<213> Homo sapiens

<400> 491
ttttaccacg atgtaaacaa acaaaacaaaa aactctcgcc attgccccca ctcccggca 60
gtgtcttattg tgggaggaga gaccgaaatt ctcaggacac acccaggcct caagaccttct 120
cgcccaatcc gtcaccactt cctggcgcag acatcggaact gttaaggccc ctccacttcc 180
cgctcagggtt acagacccca gggcacatcc ccccatccctc accccgctgc atgaccaggc 240
tgccccctgc cccgcacacc tctctctgag tagcctctg tcttcctct ggcagctgag 300
tcagcttcac cacctcaactg ggtctggAAC agccaaactcc tgacactttc acactcacag 360
aggtggagca ggggcacggg ggctgggcac caccagtgtg tgggcagcac ccaggcatta 420
aacacagcag aggtggcgc aggccacccct gttctccctc cagagccaag cttagggcaca 480
tgtccagcgg gggaggctgt gagtcacccctc tgccctcatgt gggtgatcat aggagggtgt 540
gagtcagctc tgtccacatg gttgtcatg ggagggtatg agtcagctct gtcaatgtgg 600
gtgggggggtg gtcacgggg ggtgtgagtc agctctgtcc acgtgggtgc tcataggagg 660
ttgtgagtca gctctgtcca tgggggtgc tcacaggagg gtgtgtgtca gctctgtctg 720
tgtgggtgtt cacggggggg tggagtcatg ctctgtctgt ggggtggcac aggagggtgt 780
gagtcagctc tgtctgagtg ggtgttcacg ggagggtgtg tgctcagctct gtctgtgtgg 840
gtggtcacgg ggggtgtgt gtcagctctg tccgtgtggg tgctcacggg agggtgtgag 900
tcagctctgt ctgtgtgggt gtcacaggaa ggggtgtgt cagctctgtc tggtgtgggt 960
ctcacgggg ggtgtgagtc agctctgtct gtgtgggtgg tcacagaagg gtgtgtgtca 1020
gctctgtgtg ggtgttcacg ggagggtgtg agtcagctct gtctgtgtgg tggttcacag 1080
gggggtgtgt gtcagctctg tctgtgtggg tggtcacggg agggtgtgag tcagctctgt 1140
ctgtgtgggt ggttcacaggaa ggggtgtgatg cagctctgtc tggtgtgggt gtcacaggag 1200
gggtgtgagtc agctctgtcc atgtgggtgc tcacgggggg ttgtgagtca gctctgtctg 1260
tgtgggtgtt cacaggagggg tggagtcatg ctctgtctgt ggggtggcac gggagggtgt 1320
gagtcagctc tgtctgtgtg ggtgttcaca ggagggtgtg agtcagctct ggggtggcac 1380
gggggggtgt ggttcacaggaa tggtgtgtgt ggtgttcacg ggagggtgtg agtcagctct 1440
gtctgtgtgg tggttcacgg ggggtgtgt gtcagctctg tctgtgtggg tgctcacagg 1500
agggtgtgag tcagctctgt ctgtgtgggt ggttcacgggg ggggtgtgatg cagctttgtc 1560
tgtgtgggtg ctcacaggagg ggtgtgagtc agttctgtgt ggggtggcac aggagggtgt 1620

gagtcagctc	tgtgtgggtg	gtcacgggag	ggtgtgagtc	agctctgtct	gtgtgggtgc	1680
tcacaggagg	gtgtgagtca	gctctgtctg	tgtgggtggt	cacggggagg	tgtgtgtcag	1740
ctttgtctgt	gtgggtgctc	acaggagggt	gtgagtcagc	tctgtccgtg	tgggtgctca	1800
caggagggtg	tgagtcagct	ctgtgtgggt	tgtcacggga	gggtgtgagt	cagctctgtc	1860
tgtgtgggtg	gtcacaggag	ggtgtgagtc	agctctgtct	ctgtgggtgg	tcacaggcg	1920
gtgtgagtca	gctctgtctc	tgggggtggc	acaggagggt	gtgagtcagc	tctgtctctg	1980
tgggtggta	ccggcgggtg	tgagtcagct	ctgtccgtgt	gggtgtcac	aggagggtgt	2040
gtgtcagctc	tgtctctgtg	ggtggtcaca	gtagcgtgtg	agtcagctct	gtctgtgtgg	2100
gtgggtcacgg	gagcgtgtga	gtcagctctg	tctgtgtggg	tgtcacagg	aggggtgtgag	2160
tcagtcgtgt	gtgtgtgggt	gttcacaggaa	gagtgtgagt	cagctctgtg	tgtgtgggtg	2220
gtcacaggag	ggtgtgagtc	agctctgtct	ctgtgggtgg	tcacgggagg	gtgtgagtca	2280
gctgtacgtc	atgtatgtgg	tcatctgtgt	gttccacactg	catcctgggg	tagcctgttg	2340
ccatattttg	ttgccactat	aaagccctga	gtgtggctag	gaaggggggtg	ctgggtggga	2400
ccgttatgtac	acgtgtgctc	agtttggcat	gtgtgategt	catgtgactg	ggctcacaga	2460
aaggagcttg	tccctaata	tttccaacct	tcggactgt	tcctgacactg	gcctgttagc	2520
ctgctgtctg	ggtttgcatg	cccccgagag	cccttctgaa	caaaggatgc	tgtggatcc	2580
aagccagctt	ggtgggtgcc	gggcctccc	tcccacactcc	tttagtcttt	atgttgacct	2640
tgagctgggg	ttggcctggg	accccgaggt	tctgtgacgg	aagggttgc	aggaggcacc	2700
acagcagggg	agctgggaga	gggggcttgc	ttgcctcagc	attgggggag	ccgaggaaac	2760
gttcatgaaa	gtttctgaaa	gggaagcagg	aaggattttc	accccaggc	tgcagcttca	2820
gggactacat	gagggtatgg	gtggggatga	gggaaaggcc	cacagggtgt	tattccatc	2880
tcatctgtct	cctctggctt	tgctttgtgt	tgcgaaacccg	catcctgagg	ctgacttcag	2940
aatgttaaga	aaggcagccc	tgagcctttg	atcacccag	gagttccaga	aggcaccagg	3000
gagtcctctc	gggtccccatg	ccccctccag	ccccctgggg	tcaccctgtat	cgccctggcc	3060
aaggctgcca	gtgcctggg	gactggggag	cagccacatg	ccctctgcag	gggagtagtt	3120
gccaggaagg	tgcaggcgg	ggccctgctc	tccatcacag	cggtctgtat	tatgagatcg	3180
tcactctcaa	gaggccaaaa	gttatgacca	aacttcaaga	gaaactccca	gtaaagttagt	3240
atttccacag	cagacagttg	ggatgacagg	ccacccacag	ccagtcgtga	gtgcacacag	3300
ggccctggc	cagggttcca	ccctgtctg	cctgcctggg	gccctggcta	gcctgcagat	3360
aaatcaagt	agtttgtaa	tttccacaca	cagcacttcc	agagcctcat	aatcaaccat	3420

ctataaagtc tcaagaagcc atgttgcctc ctcatggcac ctgcttcct tcctctgtgg	3480
tctcgcccgag ggtcagagag agggccattt agttgagaat ggaaggggagg ggccgctggc	3540
ttctcactcc tcaggaaggc gcccctgctg ctgccccctt agctgggagt gtccggcact	3600
gtggtctcag cacgttccag gcccccccg cccctgtgtt ctctgctggg cctccccctc	3660
ccgaggggac taggggagc agctgggatc tgcccagacg ttggctctca ccctcctgtt	3720
cctggctcc ccagecctgtc agacccttg cggcttctt ctatgaccac acagttggat	3780
ggaggcttctt ccaaggaaaa ggcagagacc agggggcagc aactccccctg cggctgaaca	3840
tggaacttc aggccaagag gagecctggg gtgagcaaca gcctgtggc cttgctttcg	3900
ggttcaggtg gtgcaggagg ccaccccgga cctccgtgaa ggccagtgaa atggacagga	3960
caaggtgctt ggccctgcggc tggagagccc atcttcttac cccctggcca catggttctg	4020
ggaaggcaact gacgctttgt aaaacttgcg tgggtgtggaa aatgtatggcg gtcataatgt	4080
gtaccttaga aggctgtgtc gggagtaac gatataacat agcgcaaatg cctgaccct	4140
gggagagggg cagttagatgt ttgttgaagt tggcatgtga agtcgaggct ctcagtgagg	4200
tgcagacttt tcctgtccag gaatggaga caaggagctg tcattcactc aagcccttcg	4260
tctgccagcc cctggccctgt tatacaccccc ttttcaatcc tgtaaggtaa gtgttcttat	4320
ctccaaacttc caggtgggaa gtctgaagct cagagagctt gggccaatgg tacaggtcac	4380
acagcacatc agtggctaca tgtgagtcgac gacctgggtc tgctgtgtc tggcttccca	4440
atatccatg ccttgcgtga tgcaggtgtc tagggatacgttccatcccc tcctgctgg	4500
gcccagagca cggaagcctg gcccctccgag gagacagaag ggagtgtcg acaccatgac	4560
gagagcttgc cacgaaatat gcagtttctt tcccttgaga aaatggcaaa gaaaattcaa	4620
cacagaaggc caggggggggt gtgtggaaac gattcacatg ttcaaaaatgttataatgt	4680
agaagaaagc tgtgaagtgt gaagtatatt ttctattgtaaatggatgaaatggata	4740
aaaataatat cctttgttag gcagaataaa taacttctt aaacaatttt acggcatgaa	4800
gaaatctgaa ccagtttattt aaatggatt tctgccacaa accttggaaatcacaatca	4860
tcttagccca aggtgaaaac tgtgttgtcgtaacaaagaac atgactgcgc tccacacata	4920
catcattgcc cggcgaggcg ggacacaagt caacgacgga acacttgaga caggcctaca	4980
actgtgcacg gttcagaagc aggttaagc catacttgct gcagttagac tacatttctg	5040
tctaaagaag atgtgagtcc taagcagact taaagccaag aaaataagaa gagggaaagag	5100
agagggcctg ccttaaccac ctgtgtgtcgtaacttggaca attccaggtc aagagggact	5160
gtctacttcc gactttgtgt gatagtaact tttaagcag tggaccgggaa gcccagact	5220
cagatgcacg aagctttgcgacg aagctgacgagat ctgcgtggc cgatgggtac	5280

ggggctgtcg	ggagcgttagc	cacgctgtgc	ccaagggtggc	ttaaatgggg	cagtggccaa	5340
gtccttttga	ctggctgagg	tgagcctgtg	gctcagtcac	actttgtccc	tctcgtaata	5400
agtgcatttc	ccagacagca	gctccttggg	gtcatgcaac	tgaggaacct	aattgtctgg	5460
gtgggttgtt	cccatccaac	ttcccacctgt	cacgaagggt	gttttttcag	atcagtcctcc	5520
acagctacca	tcttgcggg	cacagagccg	ggcatcaaca	agtgtatgtt	gaataaaagaa	5580
tqaattgtat						5590

<210> 492
<211> 2057
<212> DNA
<213> *Homo sapiens*

<400> 492
ccgtgcagcc cgagatggc tcgtctcggtt caccctggat ggggctgtg ggtgggcacg 60
ggatgtatggc actgtctgtg gtggctcc tccgtccagg gaccttggtt aagagcatgg 120
gcacccatctc agaccctgtt aaggacccca cgcgtatcac ctccccatac gaccctgc 180
tcactggaa gggtgactcc ageggcttca gtagctacag tggctccagc agttctggca 240
gttccatttc cagtggccaga agctctgggt gtggctccag tggtagctt acggatcca 300
gcattggcca gggtggttgcaggatctt ttaagccagg aacgggttat tcccaagg 360
gtctactcttc cggatctggc tcttagtctac aaggtgcac cgggtccctcc cagctggga 420
gcagcagtc tcactcggtt agcagcggct ctcactcggtt aagcagcagc tctcatcg 480
gcagcagcagc cagtttcag ttccagcagca gcagcttca agtagggat ggctctgtc 540
tgccaaccaa tgacaactctt acccgccggaa tactaaaccc ttcccagctt ggacaaagct 600
cttccatcttc ccaaaacctt ggggtatcca gcagtgccca aagcgtcagc tccaaaccgc 660
gtccccgttag ttccggacatc cccgactctc cctgcagtgg agggcccccgc tctctgcact 720
ctggccctcta cattcccttc tcccaactctg tgcagggggg tcaagggctt gtgggtgtgg 780
tggggccatca gcacggttctt ggtccctgtt gagggttca aggtcccccc ttagtagatg 840
gtggcccttc aggcaagccc tgcattccaa tccactctgtt agacaatcc tattgtgtgg 900
acggatgtgtt ggggtggctcc tctgacagtt atctgggtcc agggatgacc tacagtaagg 960
gtaaaatcta tccatgtggcc tacttcacca aagagaaccc tgcggaaaggc tctccatgggg 1020
tcccttcattt tgcagctggg ccccccattt ctggaggccaa atacttctcc acgaaacccca 1080
tcatccccag ccagtcggca gcttcctcggtt ccattgcgtt ccagccagtg gggactgggtt 1140
gggtccatgtt ctgtggaggc gggtccacgg gtcacccagg accctgtctt ccctccatgtt 1200
ctcqagttccca caqcaqttctt aqcatatccca qcaqctccqg ttcacccatc catccctqcq 1260

gcagtgcgttc ccagagcccc tgctccac caggcacccg ctccctcagc agcagctcca 1320
gttcccaatc gagttggccaa atcatccttc agccttgtgg cagcaagtcc agctcttcg 1380
gtcaccccttg catgtctgtc tccctcctga cactgactgg gggcccccgt ggctctccc 1440
atcctgatcc ctccgctggt gc当地ccctt gtggctccag cagtgctggaa agatccccc 1500
gccgcgtccat cggggatatac cttagcccaag tgaaggctct gggcccccag ctagctgacc 1560
ctgaagttt cctaccccaa ggagagttac tgc当地agctcc ataagtc当地ac tggctgtgt 1620
gtgc当地atgcct tgggc当地aaaa caagcacata cactatacc catatgggg aaggccagtg 1680
cccaggcata gggtagctc agttccctc ct当地ccaaaa gagtggttct gcttctcta 1740
ctacccttaag gttgc当地act ctctcttatac acccccttct ccttctctt ct当地aaaatgg 1800
tagattccaa gctccctctc tgatctctc ctactgttta aattccctt ccaccacagt 1860
gcccctcagc cagatcacca ccccttacaa ttccctctac tggctgtgaaa tggccattg 1920
agtaacaccc ccatcacctt ctcaactggg aaacccttgc aatgtctca gaggcacctct 1980
gacgcctgaa gaaggtaac cttectctc cccttacca aataaagccaa agtcaaaacca 2040
tcaaaaaaaaaaaaaaa 2057

<210> 493
<211> 629
<212> DNA
<213> *Homo sapiens*

ttcanaaaaa aaaaaaaaaa aaaggacgc

629

<210> 494
<211> 514
<212> DNA
<213> Homo sapiens

<400> 494
cttcctttt gtccgacatc ttgacgaggc tgcggtgtct gctgttattc tccgagcttc 60
gcaatgccgc ctaaggacga caagaagaag aaggacgctg gaaagtccgc caagaagac 120
aaagaccagg tgaacaatacg cggggcgaag gccaaaaga agaagtggtc caaaggcaaa 180
gttcgggaca agctcaataa cttagtcgtt tttgacaaag ctacatatga taaactctgt 240
aaggaagttc ccaactataa acttataacc ccagctgtgg tctctgagag actgaagatt 300
cgaggctccc tggccaggcgc agcccttcag gagctcccta gtaaaggact tatcaaactg 360
gttcaaaggc acagagctca agtaatttac accagaaata ccaagggtgg agatgctcca 420
gctgctggtg aagatgcattt aataggttcca accagctgtt catttggaaa aataaaactt 480
tattaaatca aaaaaaaaaa aaaaaaaaaa aaaa 514

<210> 495
<211> 1283
<212> DNA
<213> Homo sapiens

<400> 495
ctctctgctc ctccctgttcg acagtcagcc gcacatttttt ttgcgtcgcc agccgagcca 60
catcgctcag acaccatggg gaaggtgaag gtcggagtc acggattttgg tcgttattttgg 120
cgccctggtca ccagggtctgc ttttaactct ggtaaagggtt atattgttgc catcaatgac 180
cccttcatttgc acctcaacta catggtttac atgttccaat atgattccac ccatggcaaa 240
ttccatggca ccgtcaaggc tgagaacggg aagctgtca tcaatggaaa tccccatcacc 300
atcttccagg agcgagatcc ctccaaaatc aagtggggcg atgctggcgc tgagtacgtc 360
gtggagttcca ctggcgtctt caccacatg gagaaggctg gggctcattt gcagggggga 420
gccaaaaggc tcatcatctc tgcccccttc gctgtatggcc ccatgttcgt catgggtgt 480
aaccatgaga agtatgacaa cagcctcaag atcatcagca atgccttcctg caccaccaac 540
tgcttagcac ccctggccaa ggtcatccat gacaactttg gtatcgttgg aggactcatg 600
accacagtc atgccatcac tgccaccccg aagactgtgg atggcccttc cgggaaactg 660
tggcgtgtatg gccgcggggc tctccagaac atcateccctg cctctactgg cgctgccaag 720
gctgtggca aggtcatcccc tgagctgaac gggaaaggctca ctggcatggc ctccctgttc 780

cccaactgcca acgtgtcagt ggtggacctg acctgccgtc tagaaaaacc tgccaaatat	840
gtgacatca agaagggtgtt gaagcaggcg tcggaggggcc ccctcaaggg catcctgggc	900
tacactgagc accaggtgtt ctccctctgac ttcaacageg acacccactc ctccacccccc	960
gacgctgggg ctggcattgc cctcaacgc cactttgtca agctcatttc ctggtatgac	1020
aacgaatttg gctacagcaa caggggtgtt gacctcatgg cccacatggc ctccaaaggag	1080
taagaccctt ggaccaccag ccccagcaag agcacaagag gaagagagag accctactg	1140
ctggggagtc cctgccacac tcagtcccc accacactga atctccctc ctcacagttt	1200
ccatgttagac cccttgaaga ggggaggggc ctaggagcc gcaccccttgc atgtaccatc	1260
aataaagtac cctgtgtca acc	1283

<210> 496
<211> 512
<212> DNA
<213> Homo sapiens

<400> 496 cctttcctca gctgccgcca aggtgctcg ggccctccag gaagctaagg ctgcgttggg	60
gtgaggccct cacttcattcc ggccactagc accgcgtccgg gcagcgccag ccctacactc	120
ggccgcgcca tggcctctgt ctccgagtc gcctgcattct actccgcctt catttcgtcac	180
gacgatgagg tgacagtca gggaggataag atcaatgccc tcattaaagc agccgggtgt	240
aatgttgagc ctttttggcc tggcttggttt gcaaaggccc tggccaacgt caacattggg	300
agccctatct gcaatgttagg ggccgggtgg cctgcgtccgg cagctgtgtc tgccaccagca	360
ggagggtctg cccccctccac tgctgtgtgtt ccagctgtgg agaagaaaagt ggaagcaaag	420
aaagaagaat ccgaggagtc tgatgtgac atggggctttt gtcttttta ctaaacctct	480
tttataacat gttcaataaa aagctgaact tt	512

<210> 497
<211> 414
<212> DNA
<213> Homo sapiens

<400> 497 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt cccaaggggct	60
ttttttttca aaggcccccc caaaaattcc tttttttaaa ttccggccct tggggttttt	120
agtggaaat caaaaaaaaa aagccaaaggaa aacccctgtc tgaaaatatt tttttttccgg	180
gggcaaccaa cccaaattgc ccctttttt tttccggaaa tgaccagggg ggacccccc	240
ctttttcccc tcacatcctt tgatgtgcac agggctaaagg gttccaaaaa catggaaaat	300
tttgaacttt tttttttttt gggttcaaaa ttccggccccc caccctcgta ggaggcaaatt	360

tctggaaaaa tggattattt gtgggtggaa aaaacaaaaa aaaaatggg gccc 414

<210> 498
<211> 6087
<212> DNA
<213> Homo sapiens

<400> 498
gccccgcggc tccgaactcg gtggtcctgg aagctcogca ggatggggga gaagatggcg 60
gaagaggaga ggttcccaa tacaactcat gagggtttca atgtcacccct ccacaccacc 120
ctggttgtca cgacgaaact ggtgctcccg accccctggca agcccatctt ccccggtcag 180
acaggggagc aggcccgac agaggagcag tccagcggca tgaccatttt cttagccctc 240
cttgtcttag ctatctgcata tattttgtc catttactga tccgatacag attacatttc 300
ttgcagaga gtgttgctgt tggttctta ggtattctca tggggacagt tataaaaatt 360
atagagtta aaaaactggc gaatttggaaag gaagaagaaa tggttctgtcc aaacatgttt 420
ttccctctcc tgcttccccc tattatcttt gagtctggat attcattaca caagggttaac 480
ttcttcaaa atattggttc catccccctg tttgtgtt ttggacggc aatctccgc 540
tttgttagtag gtggagaaat ttatctctg ggtaggtctg atgtaatctc taaactcaac 600
atgacagaca gttttgcgtt tggctcccta atatctgtc tcgatccagt ggccactatt 660
gccatttca atgcacttca tggggacccc gtgtcaaca tgctgggtt tggagaaagt 720
attctcaacg atgcagtctc cattgttctg accaacacag ctgaaggttt aacaagaaaa 780
aatatgtcag atgtcagtgg gtggcaaaca tttttacaag cccttgacta cttccctcaaa 840
atgttcttg gctctgcgc gctcgccact ctcaactggct taatttctgc attagtgtc 900
aagcatattg acttgaggaa aacgccttcc ttggagttt gcatgtatcat cattttgtct 960
tatctgcctt atggccttgc agaaggaatc tcactctcag gcatcatggc catctgttc 1020
tcaggcatcg tgatgtccca ctacacgcac cataacacctt ccccaagtac ccagatctc 1080
atgcagcaga ccctccgcac cgtggccctt ttatgtaaa catgtgtt tgcatcttctt 1140
ggcctgtcca ttttttagttt tcctcacaag tttgaaattt cctttgtcat ctgggtcata 1200
gtgcttgatc tattttggcag agcggtaaac atttccctc tttccctacct cctgaatttc 1260
ttccgggatc ataaaatcac accgaagatg atgttcatca tgggttttag tggcctgcgg 1320
ggagccatcc cctatgcctt gggctacac ctggacctgg agcccatgga gaagcggcag 1380
ctcatcgca ccaccacat cgtcatcgat ctcttcacca tcctgtcat gggcggcagc 1440
accatgcccc tcatttcgcctt catggacatc gggacgcac agggcacacccg caggaacaag 1500
aaggacgtca acctcagcaa gactgagaag atggcaaca ctgtggagtc ggagcacctg 1560

tcggagctca	cggaggagga	gtacgaggcc	cactacatca	ggcggcagga	ccttaagggc	1620
ttcggtggc	tggacgccaa	gtacctgaac	cccttcttca	ctcgaggct	gacgcaggag	1680
gacctgcacc	acggggcgt	ccagatgaaa	actctcacca	acaagtggta	cgaggaggt	1740
cgccaggccc	cctccggctc	cgaggacgac	gagcaggagc	tgctctgacg	ccaggtgcc	1800
aggcttcagg	caggcaggcc	caggatggc	gtttgctgc	cacagacact	cagcaggggc	1860
ctcgagaga	tgcgtgcatt	cagcagcccc	ttcaagacat	aagaggcgg	ggcgaggatc	1920
tggctgcaga	gtcgcccttag	tccagaacct	gacaggcctc	tggagccagg	cgacttcttg	1980
ggaaactgtc	atctcccgac	tcctccctga	gccagcctc	gctcagtgt	gctcctcagc	2040
ccacagaggg	gaggagcat	ggggccaggt	gccagtcatt	tgtgaagcta	gggcgcctac	2100
ccccccacc	ggaggacccc	tgcgcccc	tgcctagagg	agcaccatct	acagttgtgc	2160
cattcccccag	ccactgcctt	catgctgcc	ccgcggact	ggcagagcca	ggggtcagcc	2220
acctgcctt	gagtcatcaa	gatgcctctg	cagccacaat	tctgacctaa	gtggcagggc	2280
ccagaaatcc	tgaaaaccc	ccgctgcctt	ttgtgatact	tcctgtgctc	cctcagagag	2340
aaacggagt	acctttgtc	ctttacctga	ttggcacttc	gcagtcatac	tccctggta	2400
gcagacggct	gctgccttc	tctggcatg	ttctgaatgt	ttacactgg	accttctgg	2460
atcttcttta	gagccccctg	caagctgcaa	ctctaggctt	ttatcttgcg	gggtcagagc	2520
gcccccttaga	ggaaaaagct	agaggcacag	ggtttctgc	ggcccacaac	tgctgtcttg	2580
atttgcattt	tacagcaaag	tgctgagagc	ctctagtcgc	ctcctgccc	ctgatctccc	2640
tccccaccat	tcccgactc	agttgttctt	ttgtctaatac	ggaggccact	gtgctgaggc	2700
cctgcagtgt	ctgctactg	ctgccccat	cgctgctagt	cagggttcca	tccttttcc	2760
cctctcccg	ttccctacca	cgttggatcc	cattegtcac	ccatgctagg	gtccccaaag	2820
cactggggca	ggggccagag	cagcagcacc	cagtgtcccc	tcctctactc	tgacctgggg	2880
ccccagcata	ctggagcaca	cgctccacgc	acacacaccc	cagccctgtc	ccagggcct	2940
ggccccctca	gccccctca	ggtgaggagc	tgccagtcat	gtccagatgg	aatgactccc	3000
atccctctct	catctccct	ttgacgagcc	tcaaaactgt	cagtcatca	aagagccatt	3060
gccaacttcc	gtatgtgggt	ctgggtccca	gggagcctt	gaacctggca	ccctggggtg	3120
gtttaattca	tcatthaagaa	gcattcctgc	ttctcaaggg	acacagtggc	ctgcatgggc	3180
cagcatggac	cctgggctga	tcatgtgcatt	tcctgttct	ctggggacac	agtggcccca	3240
catggggccag	catggaccct	gggctagagc	aagcacatct	ccatctttc	cacctcaggc	3300
agtgtggctc	cagatgtcag	gagggactga	cctcaggacc	ttccaggttc	ctctgtgcc	3360

ggaatgagag gccaggcccc atcctaccac ctgccttga ccctgaagt agagcaggcc 3420
 agccaaagcg gaagcacact gtttactttt tgcatgaaaa gttaaatgtgt acttgataga 3480
 gctaaaatat gatctttttt aatttctcaa ccccataatt tgagccattt ccttgcattaa 3540
 ttttggtttc caccattttc ttttagtggaa gaagagagga agtcagaggg tagggacatt 3600
 tgcctgcccc tggcgagtg cggcgaggaa tctgagacca gattgttctc gcacccctgc 3660
 cagaactcac tctccctgaa agtttaggtt cccatctccc agatgtaaat tgttttgc 3720
 actcagtttgc caggattttc ttctttccat aatcttaat tcacagataaa agcaatgaaa 3780
 agagtcagat cccattttcg tctgccccct cgtaacccagg tttgtatagcc ccagccagg 3840
 cacacctggc ctcacacttt gagctgagac ttgaaaacgaa tgctgtggc gaagagatg 3900
 tggggcttgg tggggggcgc ccaggattttt ttggggggca agggggtggc gggaccgttc 3960
 ccaggaggta ccagcacctt cctcgatctc ctctgagcct ctctgcccccc ccgtcgccca 4020
 ggtgagggtca gcagccctggg agagtgcggcc caagagatgaa gggcaccccg ttttgc 4080
 caatcttggc tcaccttggt aacaaaaggc catagaagtc ttgtttctg ggtcagttt 4140
 ttttgcgttga gaataacaaa ttgtgtgtt ctaccttagt cacacccat aattcttattt 4200
 ggggcagtga atgcataagaa gatataaaaa tacgcagctt aactatatctt tcctgcgtgt 4260
 gtattttttt ttttctgggtt ctaggccatg gtacaggaga actgtggcgtt gttaggggaa 4320
 tacttcagga tgagtgaagg ctggagccag ggagccgtgg aggaaaccag ccctttagcc 4380
 agcagccccc ccaccacagg cactgtgtg tggaaacgggt tcttggaaatg aatcccatgc 4440
 ttctgcagc ctgttagttgt tatgaccctt cggacaacacc accccgtggc ttgtgtgggg 4500
 ttctgcaggg aaaagggtctg gtttttaggtt ccccgagata agtgtgcagg gggatgggccc 4560
 agggccaggc taagggtggc tcagttccat catctggagg tcagacacac tggccagagg 4620
 cagaactgaa gcccctctggg cccctaccctt aagccagcca cccctttca cagtgggtga 4680
 gctgggtctgg gctgggtggc atgaggccaa ggggttaggc tgagccag agtcgcccag 4740
 gttagccac aggattccctt tttttttttt gtaatgttgc gtaatgttgc aagatgggtt actggggacc 4800
 ctctttttttt cttttggcaaa aggtgccatc ggcagggtt ggcctcatga agtctcagg 4860
 ccgtgttccc gcaggggcgca catgtttggaa gaggccatcag cagggttagcc gaggccaggc 4920
 cacttctgtt gaggatgggg caggctgggg tttttttttt gctgggtgtt gctcagggtt 4980
 ggaactgtgtt cttttttttt gttttttttt gttttttttt aagctcagg 4980
 gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt 5040
 aggatttcac atgcagaaga gaaaaggccc ccctccaccc cccgcattcc ctggccagg 5100
 agagccaggatg tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 5160
 ggttcatgaa gcagagtcctt cgggaaggca tctccacacgc cccgggttctt ctgtctaaacg 5220

ccctccat	ttt cacgc	cc tacatc	caagataa	ag gcctcg	gaa taa	aggagcca	5280
cccccttc	atttagtctc	ctgccc	ttc ccaa	ac agt gtc	caac	act taga	5340
ggggcttc	cac tgta	ccagg	catgtaa	ca aggg	gga ag	actaac	5400
ccatccccat	c ccc	c tccc	gagctat	ttt ctgt	gg cctc	tgtgc cttg	5460
gtctcccc	cg ctgc	g ggg	c ttca	c tgg	gtgagc	gcga agt	5520
agcagtggc	c tgg	tgtg	atgg	aaag	at gtcat	ccgt ggtca	5580
ccctgcggaa	ccag	ggc	ctc agg	ctgg	gat ggg	aggcc	5640
tgggcatggc	ctgg	c ttaca	ccaa	aggc	ttt tgac	gggtt tc	5700
tcttgaatcg	tc	c taaaat	gacg	aagc	ttt gat	ttt caat	5760
cattcc	ttt catc	atcc	ttt gtaaaaa	ttt tgac	atgg	ttt tg	5820
cattatgaag	ggc	agactt	ta ctc	at tttc	tttcc	caat	5880
taggccc	ctg	tgc	atg	tgat	gtgc	tgat	5940
ggggaa	ggc	ggc	atg	tgat	gtgc	atc	6000
tcgttggact	ctt	taagg	gtc	aggaa	ata gat	gtgaa	6060
tat	ttt	agaaa	taaa	agtg	tgat	gtgt	6087

<210> 499
<211> 657
<212> DNA
<213> Homo sapiens

<400> 499	ccccgc	acac cccg	tagg	ac caat	gtc	ca gcca	60
cccg	ca	ac	ca	at	tc	ac	120
agaatct	taac	aac	agat	gtc	taat	atcc	180
ta	ccgt	cc	gg	ctgt	ttctgt	ccat	240
tg	tc	tc	gg	gt	ttt	gt	300
tct	cc	cc	ct	cc	ttt	gg	360
tt	gg	gg	gg	cc	ttt	gg	420
gtt	tt	tt	tt	cc	ttt	tt	480
ctt	tt	tt	tt	cc	ttt	tt	540
tc	tt	tt	tt	cc	ttt	tt	600
tca	at	ac	ct	gt	tt	cc	657

<210> 500
<211> 1909
<212> DNA
<213> Homo sapiens

<400> 500	
gctggtgtgc ggcgcggcg cggcggcg atggcggcg gtggcagcga tccgcggct	60
ggcgcacgtag aggaggacgc ctcacacgtc atcttccata aagagtttgaa aacagctgag	120
acacttctaa attcagaagt tcataatgtt ctggAACATC gaaAGCAGCA gaatgagagt	180
gcagaggacg aacaggagct ctcagaagtc ttcatgaaaa cattaaacta cacagcccgt	240
ttcagtcgtt tcaaaaacag agagaccatt gccagtggtc gtatgttgc actccagaaa	300
aagtttcata agtttgatgtt ggctgtttg gccaaccttt gcccagagac tgctgaggag	360
tccaaaggcctc taatcccaag cttggaggga cggttgaag atgaggagct gcagcagatt	420
cttgatgata tccagacaaa ggcgcagttt cagtattat ctccaaacat cactgtgtct	480
cgggaaacc acatccccag gcataaacacc accttccac tgcgtgggc tgacttgac	540
agaaattctg ttgaagacag ttgagaattc cttggagaa aacagccag ctggcgtgg	600
ggtaggttg ctgtttcaaa taactcacag gcccaggta catggaatct tggagcagcc	660
ttgtgcgtg gcagccagtgc gcttcctgaa cgtgcctgtc cgaatgtga gatgaggggt	720
cacataacca cactgttgac tacctcattc ctggtttttgcctccacat catttttt	780
cttaatattt catgttttaa ttccagggttgc ttataacttt ttgaaacttag accagaagat	840
atgtagacttt atagagaag accagttta cctagataact aaaggaagaa ttaaaccgc	900
gttagtttga aatgtttttt tttttttttt ttaaatggag atagggtctt aactcttgctc	960
caggctggag gagtcgtgc gtacagtcat ggctcaactga agtcttgacc ccgctgcctc	1020
agcctcccaa ataactgggg ccacagggtgt gcaccacaac tctcagtaa tttttaaaat	1080
tttttataga ggtggggttt tactatgttg tccagactgg tcttaaactc ctggcgtcaa	1140
gtatcccccc tgcctggcc tcccaaactg gtgagattac aggcgtgac caccacaact	1200
ggcctgaaat tcttaaagga tgggagtgtc gatgacgacca ccttggcattc gttgtgccta	1260
acctgggaga cggagaagac acgccatggg aagtgtttac acttggggga caagtgttaa	1320
gtatgttggaa gcccatacgcc ctttgcgatata gatggctact ttgcctttct tcttgcgttg	1380
tcttgcgaaat tggatgttgc gggtaagtgg tcttgcgttg ttcattttgtt caccctcaaa	1440
ttaagatttt tacttcatct ttcttggcc tgcacactca agataacaaa gaagaagca	1500
tggtcgtgcc aaagagggtcc acaaccagggt gtgcactgtt cactgcagcc catttgcgtgt	1560
atgaactgtg gttgtgtgtt gcccaatgac aaggctacta agaaattcat catttgcgtt	1620
gttagaggccg cagcagtcag cgtatgtttctt gaaatgagca tccttgcgc ctgtgtactt	1680

cccaggctgg atgtgaagct acattaccat gtgagttgtg ccattcacag cacagtggtg	1740
aggaatttagag ctcataaaggc cgaacaccc caccggaaacg tagacctgca	1800
ggtgctgccc catgacactcc accaaagccc atataaggag cgaggatgtt aaggactgaa	1860
aaaaaaacttc tctggagaaa aataaaattt caattctact taaaaaaaaa	1909

<210> 501
<211> 912
<212> DNA
<213> Homo sapiens

cgtttccgc tacctcgccc aggctgccag accggaaagcg ctccgctgtt cctggatct	60
gtccctctgg gttgaaaccc gggccgcgc aagatgccgg cttaccactc ttctctcatg	120
gatcctgata ccaaactcat cggaaacatcg cgaactgttgc ctatcagaag tcaattcaaa	180
ggacctgccc ccagagagac aaaagataca gatattgtgg atgaaggccat ctattactc	240
aaggccaatg tttttttcaa aaactatgaa attaagaatg aagctgatag gaccttgata	300
tatataactc tctacatttc tgaatgtctg aagaaactgc aaaagtgc aaatccaaagc	360
caaggtgaga aagaaatgtt tacgtggga atcactaatt ttcccatcc tggagagct	420
ggttttccac ttaacgcaat ttatgcaaa cctgcaaaaca aacaggaaga tgaagtgtat	480
agagcctatt tacaacatcg aaggcaagag actggactga gactttgtga gaaagtttc	540
gaccctcaga atgataaacc cagcaagtgg tggacttgc ttgttgc aacatcgat	600
aacaagatgc ttccaggacc tggacagtga agggagcccg ggcagccacc gtctccagag	660
ccctggccag cattttccag caagatgtac acaatcttt gcctttttt cgtaaaatgtt	720
tatcagaag agagaagagc atgtctttac ttgaaaaact cttgtatcaag aatttgggtg	780
ggagaaaaga aagtgggtt tcaagggtt tttgaaattt tctgcagcat taaagctggc	840
gttataataag aataagtaat aataaaagaaa ttcttaacat tccaaaaaaaaaaaaaaaaa	900
aaaaaaaaaa aa	912

<210> 502
<211> 2227
<212> DNA
<213> Homo sapiens

taattcagaa tttagttaaag aaatattttt tctagtcctt catatattgtt aaacttgccca	60
catgacatttgc tatcgctttc atttccaga agatgcgttgc gtgtgccata ggtttctaaac	120
ttcccttgaaa atagttttt aagtcaatttgc taaatatacg tattattgtt aaaagtaact	180

ttaaactgca acacatagct tcaaacaat atagagattt tgtaataacct tataagtgg 240
gttggctaaa atactttac catataaaac ttattctatt ctttgcattc ttatgggtgt 300
tgttgggtgc tagcttaag tttgatttg tgttactctt tggtgc当地 attcaactagg 360
caagcgatt tttccctcaga cttcaaaaaa taattctttt aagaaaaat gtaaaaatgt 420
ttattctaaa aagctgcatt aaaggcacaa cctataaaa gttttgc当地 ctcatcttta 480
gaaggagaa agaatattag cttgggtgtat gtttatttg ggtggcata gtttgc当地 540
gcttaaacttt atgagaaaag ttttgc当地 ctataaaggat aataatgtt aacacttgc当地 600
ctgttattgtt ggaagctctt caactaccctt aaatttcaca aatgttactt ataacacttat 660
gaaaagattt gaccaacaat ttacgttgc ttttgc当地 agttttgtt taagcatatt 720
cttttgc当地 aatttctgtt ttcatgagag tttaggtgtt ttatgttctt ttttgc当地 780
ttataacata ttttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 840
taaaggcactt attaaaggtag gtggaaataaa gttatattttt gtttgc当地 catatctttt 900
agaaggcctt acagaacaac ctttttttgc当地 gtttgc当地 agtttgc当地 ttttgc当地 960
taaagggtata aggaaactca aatactataa gtttgc当地 gtttgc当地 ctttttttgc当地 1020
tgc当地 gtttgc当地 aattttatca gtttgc当地 ttttgc当地 ttttgc当地 aataagacat 1080
atgtttgtat tacttagggaa agtttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 1140
catgtatggaa ctttttttgc当地 taatataaag aaaaatcgatc ttttgc当地 ttttgc当地 1200
ctgtgttggaa aactacttgc当地 taatgtttt gtttgc当地 gtttgc当地 agggacataa 1260
aactgtgttgc当地 ttatcatggaa ttttgc当地 ttttgc当地 ttttgc当地 1320
agggacttta agcatttcca ttttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 1380
catttttttgc当地 gacagttttt ttttgc当地 ttttgc当地 ttttgc当地 1440
tgttataatgtt aattttggc当地 ctatgttgc当地 atagaattaa atgttgc当地 ttttgc当地 1500
attttgc当地 tagaaatgtt aatttttttgc当地 ttttgc当地 ttttgc当地 1560
caaaaatgtt aatttttttgc当地 gtttgc当地 aatggattt ataaatgtt ttttgc当地 1620
atagatactt cacttggaaa gaaaggcacag catactttaa gtttgc当地 ttttgc当地 1680
cttagaaaaaca gtttgc当地 gtttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 1740
tttttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 1800
catatgttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 1860
gttctgc当地 ttttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 1920
gccaatgtt aacttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 1980
aaaactgttcc ttttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 ttttgc当地 2040

tcatgtatct ggtcacccat	tttacaattata ttatttgaaa	catgcatac	2100
tgtgctctga gcttataacct	caattgtatt ttgtgctgtt	ttccatttc atgccttgta	2160
aataacttgt atagattgtg	gatcaaatac taaataaaaa	ctttatgc caaaaaaaaaa	2220
aaaaaaaaa			2227

<210> 503
<211> 2992
<212> DNA
<213> Homo sapiens

<400> 503			
taaggcctcat agtctaagaa	agccctcaag caaggctaac	attttggta tctgcgagaa	60
gattgagcac tcggtgtcct	tgctccttgc agcttcgcag	catcttctgg agcagcatga	120
gcttctact ctgactcata	agtctccac cctcataagc	cccactgggg agtttggggg	180
cctctattgc catgtgcctg	gaattattat atgctcatca	ctttatgata cdhcadatt	240
tgtcdtgvct gyctttaaag	ttacattcgt tttccgcctc	aaatcctgat ctggccatt	300
aaagagtgtt cgccagacaaa	gtttctgaaa gatttagaa	gaatccccca caagattgcc	360
ccaaacactga actacagaca	aacactattt tatTTaaata	aggagacagc tttctaaaag	420
tatacattct ctaataaaaa	tagtttatta ttttgaatga	ttaatgggtt ttctacacaa	480
tttacatcac aacatgtaaa	ttttagcagt aacatctgat	tctaacagca catcatgcta	540
ttcccttcat agaggcctca	gagattcaat gctaaacaaa	tttccttagt tggcatcaag	600
gcactgatca cttagaggc	ttttaagaaa ttatTTaaag	atgcaaatgc ctctgagtga	660
agtgtactat cccatcaact	aaagccccacag	gaacaagtcc tacaattttt	720
atggggaaaaa ttctcaatc	ctgaaatccc cttagggagg	aaaaggctcg ggtcagggg gaaagtgc	780
tgggtgatat ttaaggaact	ccacagctct	ttatTTaaat aaacccatcg	840
gcaatactgc agaatgc	ttaaacttat cstgttaaac	gataccatcc cctaaccatg	900
ctccccagat gaaatgaagc	aactcttctg	ataacgaaga gatacctg	960
gaaacattgg cacacagcac	agccctctca atccacttg	tcccaactca tctctcattt	1020
atttcggctt cttttattcc	aggattaatg tagtgaaca	ttttcatttc ttttcgtt	1080
tattctgctt ttgtaaaagc	agtatTTtaa	gatggacatt gccccttca	1140
catcaattca ttatTTttgt	ggttataatg	tttactttaa aatggtagat	1200
tccgttaactt taaattggta	gctttcattt	gctttaaatt ttttggcata	1260
gttctcatca gtagtaagaa	tctcagggtt	tgcagataat atgcttattc	1320
taatcttttc tgcccttact	tatcaattca	ccaaggagct gtttctctg	1380

atcatactgc caggctgggtt atgactcaga agatgttac taaaaaaagt ctatagaaaa 1440
 aaaaaaacak gtccctccc tcatcaacaa aagcccaccc tctaagagac attcaagctg 1500
 aactatcaca attcttaatc agttacaatt tacaacaga taagttaaa ataaacaatt 1560
 tacaatatt ttgaagcata ccttaacatc ttgtttgca gttaaacaat gaaaaagtat 1620
 ttctcctaca ctaaaaaaaaaa acttgcttra cacacaactg aaaatagaat cttacttgat 1680
 aatacaaaag ctaccatcg aagaaatccc ttccaggatca ttaagccact tcctttgctc 1740
 tgtagttct atagtagttt taaatttata ttaaatcacc taaaaaaat tccaaagag 1800
 aaccacacac taccatatcc aaacaacttt tgcatccccc ataattgtat ttaatgtcag 1860
 cccagtaggc cagaccaacc cccagttcaa tactttccctt cccccaaagc tctatacttt 1920
 ggaggaaaaac agatacagta tcaaattatg acacttcct tgcccaaatt aatgcactgg 1980
 tacacccagt ggctcatatt taacttcccc cagcttccca attcaaactg gggggaaaaaa 2040
 aactaaatca ttgggagttt ctggcaact tggaaagtta tatttttttta ctttttccat 2100
 tctaagactt taagttctt ggcatgagtt tatctgaat cataaactaa acaattacct 2160
 aaacccaccc caccaatccc aaccgtaaaca ggccactgccc aactaattgc caatattgc 2220
 ccctccctt taataaaaact tttttaaaatg cacattattg gaaaactaa cttcaacatt 2280
 tggctactc aagcttctt gaagttctcc tgagatgact gaatatgaac caaagctgca 2340
 ctgtgctgta cttttcagct tcaactggga atactctccc aaggataaaaa gcagctccag 2400
 tccctgaagg tggcgtgccc aacagcacag cggtacactc cttctctaac ccagttgtc 2460
 aatagtacta tagcatctgt gggaaatctt agaaaaaaaaac attttctccc ccacccctc 2520
 tcttccctgt taagaccatc cccaaatgt tcaagttaaa aataacaagt ttaaggggtt 2580
 aagcactttt aaagtctgtat taaggggggtt gggggaaaaaa agagtaacta ccagccattt 2640
 ctccaatggc catcttcc acagacccca acgtgagaaac tgctcttagtt tctataaact 2700
 gttaacctgt ggtggctgtat ttatctgtat atggatttt ctgttttctt gttacacccctt 2760
 gagtcatttg cttttaggt tcttagacaga cctaaaggaa aaagaactga aaacatattt 2820
 tgccccacc cccacaaaaaa aaaatactga aaactcccccc ccgcctcagtt tacacatcca 2880
 aactctcatat ttacaaaacg aattcagggtt gaggaaatggaa aaacagggtca tctattcaca 2940
 aaactgaaat acttcattac cccaaactaaa catacaaact gcttacagat tt 2992

<210> 504
 <211> 972
 <212> DNA
 <213> Homo sapiens

<400> 504
 gcatgagtag tgctctttat gaaacgcaac atgcaataat agagtaggta tggtttcaga 60
 agtcagagca gcagggtttt ttgtttgtt ttgttttac actatgctaa tttcagacaa 120
 acagtttca atttagaaat aaaaaactt ttaaactcgaa aatggcgca acactggttt 180
 ttgggaatg tgttttact ttgcataag atgaatttag gagaaaatca cggtgcttt 240
 attaaatgaa cttagatata atgtaaattt tttttaaag ttacatcatt aacattagta 300
 accttagcatt ttcattattt gtatagaaat taatgtttat tgtacagttt ctaaggtaaa 360
 atgtgtttct gtttgtaaa aactactgtt gatttttact tacaagtgc ttttgcac 420
 ctaatgtttt tatttatagg aatgctgatc tttgtacat acatggttt taaaatcat 480
 gtttaataaa tgtttgtata taaatgcata tgtacagaag cctatttcaa aaggaaatca 540
 aagttgttag taaaatgtt gagattacat ttagaactaa ctgataatgc atatagattt 600
 gtgaaaattt tttgtgtt ctgtgtgata agggaaagctg ttggcttga attcttaat 660
 tttgtccaaa atagttgccca caagattaa attttgaggg ttggcttctt aagcagtaat 720
 ttatttcatgt ccagtggctt ccatttagt ggggaaacgtt cgggtgttgg cgccaacttt 780
 aaacattctt caaatctgt tcgcggggca gacgcgttcg ctccccaggg cgtcgaaaat 840
 actttcagta cgatattggcc gctccagaaa aggccgttccc gtgatgaagg atctcaacga 900
 aaggctcaca ctaacagggg aggattacag caccacaata ctacatatct tctatataatc 960
 ttctttctca ca 972

<210> 505
 <211> 2631
 <212> DNA
 <213> Homo sapiens

<400> 505
 ggcacgagga acaaccttatt tgcaaagttt ggcacaaacat tccctgcctga caggaccatg 60
 gacacaggtt gtagagatag agatggctct ggctgtgcat tcagcagatt ctgttagatag 120
 aattaatagg acttggatgg gattgtggt agagaaaatg aatgaaaga taagttctag 180
 ttggaaatgt ttaacaactg aatgtttaaa ctcaaatacg cacaaaatat tggaaagatgt 240
 gcagggtttgg gaggatgaga caatcaactg tttgggttag ccacgttagg tttgaaatgt 300
 ctacgggatc ccgtggggag aggttatatc agactggagc accagagaga ggcacaggct 360
 gatagtttag atgaaaagag agcatgatatt tttaaagccct gagactggat aatatcacct 420
 atagaaaagac tatatacgata taagagatgt gggaaacaag taaaagctgc gggacactcc 480
 taaaatgttga gtcaaattta gaggcagaaaa tactagcaaa gggactgaa aagcggtggc 540
 caatttgagct tcaaatacgaa gtgaaagtgtt gttgtgtgtt catttatcat ctcatggcac 600

agaaaaaacg tgatttaagg agaaggaagc gatccaatgg gaagaagaga tccaatggat 660
 cctctatcac gaagatattg agataagaac caatatggat ttgcacccac tgcatttgc 720
 gccttgaggt cataaggatc ctcaggaaaa tgcaccaggt gctgtggca agatggaaac 780
 caacttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctggctacac 840
 tgttctgcgg atcctccat tgggtggtgc tgggttcacc tttgtctcg gggctctggg 900
 caatgggctt gtatctggg tggctggatt ccggatgaca cgcacagtc ccaccatctg 960
 ttacatgtac acggccctgg ctgacttttcc ttccacggcc acattaccat tcctcattgt 1020
 ctccatggcc atgggagaaa aatggccttt tggctggttc ctgtgttaagt taattcacat 1080
 cgtggggac atcaacctct ttggaaagtgt cttcttgatt gggttattt cactggaccg 1140
 ctgcatttgt gtcctgcate cagtcgtggc ccagaaccac cgcaactgtga gtctggccat 1200
 gaaggtgatc gtccggaccc ttgttcttc tcttagtcctt accttgcag ttttcccttt 1260
 tttgactaca gtaactatttcaaaatgggca cacatactgt actttcaact ttgcacccctg 1320
 ggggtggacc cctgaggaga ggctgaaggt ggccattacc atgctgacag ccagaggat 1380
 tatccggttt gtcattggct ttagcttgc gatgtccatt gttgccatct gctatgggct 1440
 cattgcaccc aagatccaca aaaaggccat gattaaatcc agccgtccct tacgggtccct 1500
 cactgtgtg gtggcttctt tttcatctg ttgggttccc ttcaactgg ttgccttctt 1560
 gggcaccgtc tggctcaaag agatgttgc ttagggcaag tacaaaatca ttgacatctt 1620
 ggttaaccca acgagctccc tggccttctt caacagctgc ctcaacccca tgctttacgt 1680
 ctttggtggc caagacttcc gagagagact gatccactcc ctggccacca gtctggagag 1740
 ggccctgtct gaggactcag ccccaactaa tgacacggct gccaattctg cttcacctcc 1800
 tgcagagact gagttacagg caatgtgagg atggggctcag ggatattttt agttctgttc 1860
 atccctaccct aatgcacagg ccagcttcat ctacccttgc gtcatttgc ggcattcaag 1920
 gatgcacagg tcaagtattt attcaggaaa aatgcttttgc tgcatttgc tggggctaa 1980
 gaaatagaca gtcaggctac taaaatatta gtgttattttt ttgttttttgc acttctgcct 2040
 ataccctggg gtaagtggag ttggaaata caagaagaga aagaccatgt gggatttgc 2100
 agacttagat gagatagcgc ataataaggg gaagacttta aagtataaaag taaaatgttt 2160
 gctgttagtt ttttagatctt ataaaaaaa atcagattat ggaagtttc ttcttttttgc 2220
 agtttgcataa gagttttctt tttcttttgc ttacatctg agtggactttt gcattttgc 2280
 aaatgcattt tctacatgtt ttaagatgtt catatttttgc ttcttttttgc atgtaaatca 2340
 ttataaataa tgttcattaa gttctgaatgtt taaaactactt cttgaattcc tggataaaac 2400

cacacttagt cctgatgtac tttaaatatt tataatctcac aggagttgg tagaatttct	2460
gtgttatgt ttatatactg ttatttcaact ttttctacta tccttgtaaa gtttcatacg	2520
aaaaataagga acaaagagaa acttgcataatg gtctctgaaa aggaatttag aagtaattcc	2580
tctgattctg ttttctggtg ttatatcttt attaaatatt cagaaaaatt c	2631

<210> 506
<211> 1379
<212> DNA
<213> Homo sapiens

<400> 506 ggcacgagga tctttccag ttgttccgc ccctaccccc gcctccgcga ccgcgcacct	60
ctccggcgtgc cctctccgcg tggggcaagg ctccgaggc acgattcagt agccatttag	120
ctttgaaagg agaggtgatt cgaatggccc ggctccctct gtcaccatgc cagggacttt	180
ggccgcgcag gtgctgaccc gaaacctgggtt catcccttcc tgacccaaac tgttcactca	240
ccgtgaaagg gactaagcat ccataatggag acgccaccag tcaatacataat tggagaaaaag	300
gacaccccttc agccgcaaca agagtggaa aagaaccttc gggagaacct tgattcagtt	360
attcagatta ggcagcagcc ccgagacccct cctaccgaaa cgcttgagct ggaagtaagc	420
ccagatccag ccagccaaat tctagagcat actcaaggag ctgaaaaact ggttgcgtaa	480
cttgaaggag actctctataa gtctcatggaa tcaaccagtc agatgccaga ggccttcaa	540
gcttctgatc tctggactg ccccgatggg agctttgtca agaagatcgt aatccgtggc	600
catggcttgg acaaacccaa actaggctcc tgctgcccgg tactggcttt ggggttccct	660
ttcggatcag ggccgcaga gggctggaca gagctaacta tggcgttagg gccatggagg	720
gaggaaacctt ggggggagct catagagaaa tgcttggagt ccatgtgtca aggtgaggaa	780
gcagagcttc agctgcctgg gcactctggaa cctccgtgtca ggctcacact ggcaccccttc	840
actcaaggcc gagactcctg ggagctggag actagegaga aggaagccct ggcacgggaa	900
gaacgtgcaa ggggcacaga actatccga gctggaaacc ctgaaggagc tgcccgatgc	960
tatggacggg ctcttcggct gtcctgtact ttaccccccac ctggccctcc agaacgaact	1020
gtccttcatg ccaatctggc tgctgtcag ttgttgcgtag ggcagccctca gttggcagcc	1080
cagagctgtg accgggtgtt ggagcggggag cctggccatt taaaggcctt ataccgaagg	1140
ggggttgccc aggctgcctt tgggaaacctg gaaaaagcaa ctgctgaccc caagaagggt	1200
ctggcgatag atccccaaaaa cggggcagcc caggaggaac tggggaaagggt ggtcattcag	1260
gggaagaacc aggtgcagg gctggctcag ggtctgcgcga agatgtttgg ctgattaaaa	1320
gttaaacctt aaaagagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1379

<210> 507
<211> 2059
<212> DNA
<213> Homo sapiens

<400> 507	
gtgtgagagg ggttagggagt gctcccgccg gcgacggggc cgagttcacc agccggccgg	60
gcagtagtcg aaggccccggc gcggcatgtc ctgggtgccg cgggtcgccg agtgaacgcg	120
cgcggggcg gatggggccgg cgccggggcgc cagagctgta ccgggctccg ttcccgttgt	180
acgcgcgttca ggtagcccccc agcaactgggc tgctcatcgc tgccggccgaa ggaggcgccg	240
ccaagacagg cataaaagaat ggctgtcact ttctgcacgt agagctgatt aatggggcgt	300
tgagtgccctt cttgctgcac tcccatgaca cagagacacg ggccaccatg aacttggcac	360
tggctgggtga catccttgcgat gcagggcagg atgcacatcg tcaagctctg cgcttccagg	420
cacatcaaca gcagggcaac aaggcagaga aggccgggttc caaggagcag gggcctcgac	480
aaaggaaggg agcagccccca gcagagaaga aatgtggagc ggaaacccag cacgaggggc	540
tagaacttagt ggttagagaat ttgcaggccg tgccagacaga ctttagtcc gatccactgc	600
agaaaagtgt gtgttcaac cacgataata ccctgttgc cactggagga acagatggct	660
acgtccgttctt ctggaaagggtt cccagcctgg agaaggttct ggagttcaaa gcccacgaa	720
ggggagattga agacctggctt ttagggctctt atggcaattt ggtaaccctg ggccgggacc	780
ttaaggcctc tgggtggcag aaggatcagc tgggtacaca gctgcactgg caagaaaatg	840
gaccacccctt ttccagcaca ctttaccgtt accaggcctg caggtttggg caggttccag	900
accagcctgc tggcctgcga ctcttcacag tgcaaattcc ccacaagcgg ctgcggcagc	960
cccttccctg ctacccatca gcttggatg gctccaaactt cttggccctt cggaccaagt	1020
cctgtggcca tgaagtcgtc tctgtccctg atgtcagtga atccggcacc ttccttaggcc	1080
tgggcacagt cactggctctt gttgccatctt acatagcttt ctcttcacag tgccctact	1140
acgtgaggga gccccatggc attgtgggtga cggatgtggc ctttctacct gagaagggtc	1200
gtggtccaga gctccctggg tcccatgaaa ctggccctgtt ctctgtggct gtggacagtc	1260
gttgccacgtt gcatctgttg ccctcacggc ggagtgttcc tgggtggctc ctgcctctgc	1320
tgtgtgtccgg gcttattttt gtgaccatcc tgctgttccaa gagtgccctt ccaggtttcc	1380
tttagcttcc tggccatctg ggaatcagga gcttggacac tgccatctctt agagcagatgt	1440
ggaggccctgg actcccttttgc ttcactccat tgggttccac agctgaggtt gctctgttgc	1500
agatgaatgg gcaactgcctg cccttctatgtt gaaaaggctt ggctatggcc ctgtgtgact	1560
ccaggttccca ggaacccctgc ctctgttccat tgggtatcca tccagaacacag cggttatctga	1620

agcccaggcc atatccctcg cctcccttct tctgccttacc agaggctcca gagttgagct	1680
tgtcccttatac tagaaacatcg tgaagatgcc caaagagctcg gaggcaactgc tgtcccttct	1740
gcagaaaacag ttctccctcc tccccctcagc ctgtggccca gttcccttc acatgaagcc	1800
cctggcattt gctgggaaag ggactggctt ggtacttgct gttagggcag gaagggggca	1860
aaggaagact tgggtagtaa tctgggggtt cagatgggta gcactaagcc agctggccta	1920
aagatgcaat aagtccctag gtatgttacc cttagttga ggaatgggaa aatgaaccc	1980
agccccattag gcaggaaaaag ttgatattta ataacaagg aaagagtgaa ctgagacccc	2040
aaaaaaaaaa aaaaaaaaaa	2059

```
<210> 508  
<211> 1028  
<212> DNA  
<213> Homo sapiens
```

<400>	508					
aatgcaagag	gcagttgtta	gtttcaggg	ctggcaact	gaaatagcta	tgtggcgat	60
acggaaaaca	gaggacaatt	tgaggatctt	gctggataa	taaatgacag	ctaccatttg	120
tttagcacct	attatatatc	aggcactgag	ctgggttagc	tctaaatcc	acaataacc	180
tgtgacttaa	ctactttatc	tccatTTTGT	agtgtgaaagaa	ataagttcag	agagaaaagat	240
tccttcccaa	ggtcatgcag	ctagtaaatg	atagaatcag	gattcatagc	atctactatag	300
gggttcaata	tttacacaaa	aaaggaaagt	cacaaggctg	tttaaaatga	agtgaccacc	360
ttttcttgca	tagactaaat	aactcgaact	ggcattttta	ggttggaaag	acagctgaat	420
tagtagttaa	gtctgatgc	caagtaagtt	ttaaaaacca	aagcatccag	gatgcacacc	480
cctgcaccat	ttgctgtgcg	aattaatag	tctgttctc	tctcttttc	ttttttttt	540
tttatttttg	agatggattt	tegctttgt	cgccccaggct	ggagtagccgt	gagccaagat	600
cacgcactg	cctccaggct	gggcaacaga	gtgagactcc	gtctaaaaaa	ttaattgcat	660
tttgttagaa	aggtcacaat	ggcttattaaa	tttacatctc	tatttcatct	tcaaggagat	720
ccggggataa	tatgttatgc	ggcttgacct	gtttgacacc	accctctttg	gaataatggc	780
ggccctcact	taaggcacca	tatggcccc	atatatgagc	aactggagca	actacccaaa	840
gtatatacagac	aaaaaaaaattt	ttcacagaaac	ttcttttgag	ggcccttgcac	aaaaggggagg	900
tttacctacac	aacacaaaagt	tggccccatt	aaattaacgg	ccatcacacc	cacgactgac	960
gggtgatcaaa	caaatttcaca	gcacagacac	cgcgcaacaa	cgcaacttct	ccagcaggac	1020
atcgactc						1028

<210> 509

<211> 1406
<212> DNA
<213> Homo sapiens

<400> 509		
cctctcgccc gtcactggga gccccacgga aaactgcgtc aaaggcttgt ctccccctg	60	
cccgaccgaa ggagccgacc ttgcctgcgc tacagttcc ttattttgt cgccctgttct	120	
cctgatcctg cgtgttctaa aaacccctta ggcttccat gggttccag accatggcgg	180	
tggcgctgcc cagggacttg cggcaggac ccaacctggc aaagaggagg cacgcggagc	240	
tgtgcaggca gaagcgggtc ttcaacgcca gaaacaggat aattggggaa gacactgaag	300	
cctggatgt tcaagttcat gaccagaaga taaaagaagc tactaaaaaa gctagacatg	360	
aaaccttgc tgctgaaat aggcaaatg acaaaatcat gtgcataattt gaaaacccgga	420	
aaaagaggga tagaaaaat ctctgttaggg ctatcaatga ctccaaacag agctttcaga	480	
agccagaaac tcgcgctgaa ttgtatctgt ccgcacccctt agcccttaag aaagatcttc	540	
cagccggca gtcagataat gatgttgcga atacgatatac aggaatgcag aaattcatgg	600	
gagaggatt aaacttccat gagaggaaga aattccaaga ggaacaaaac agagaatgg	660	
cttgcgca gcaaaggaa tggagaacgc cccgtgtga acaaaaatgc gcagaggccc	720	
tctacacaga gacaaggctg cagtttgacg agacagccaa gcacccctt aagctggaaa	780	
gcaccaccag aaaggcagtt tgcacatctg tggaaagactt caacaagagc caggccatcg	840	
agtcaagtggaa aaggaaaaag caagagaaaa agcaagaaca agaggacaac ttggccgaga	900	
tcaccaacctt cctgcgtggg gacctgtct ccgagaaccc gcagcaggca gccagctct	960	
tcggggccca ccgcgtggc cctgaccgtt ggaaggccat gacccaggag cagctggagc	1020	
agatccgcct agtccagaag cagcaaatcc aggagaagct gaggtccag gaagaaaagc	1080	
gccagcggaga cctggactgg gacccggcga ggattcaggg ggctcgcc accctgttgt	1140	
ttgagcggca gcaagtggcgg cggcagcgcg acctgcgcag agctctggac agcagcaacc	1200	
tcagcctggc caaggagcag catttgcaga aaaaatatata gaatgaagtc tatacaaattc	1260	
aacccacggg agactatttc acacaattta atacaggaag tcgataatga ggaacacacc	1320	
cttggccctt tcattcacgt ataaagagtg gctacctaa aaaaaaaaaa aaaaaaaaaa	1380	
aaaaaaaaaaaa aaaaaaaaaa aaaaaaa	1406	

<210> 510
<211> 4357
<212> DNA
<213> Homo sapiens

<400> 510		
atagtcacca gaagctggaa gagtcaaagg acacattctc ccctcaagcc ccagtggag	60	

tgagtgcagg tggaaagccac atggatcgaa taggagccat ccgagacaac ctgagtgaaa 1920
 cggccagcac catggcacta gctggagcca gtataacggg gagtctgtca ggaagtgccta 1980
 tggtaaactt tttaacagg ttggaaagtac aagcagatgt acagaaaaga cggtacagtc 2040
 taagtggaga atctggcaca gtcagcttg gaacagttag tgataatgcc agcaccaaag 2100
 caatggcagg atccattctg aattcctaca tcccattgaa caaagaaggc aacagttatgg 2160
 aggtgcaagt agatatttag tcaaagccat ccaaattcg gcacaacagt ggaagcgtta 2220
 gtgtggatga tggcagtgc acccgaagtt atgctggcgg ttcattccagt ggcttgcctg 2280
 aaggtaaatac tagtgcacc aagtggtcca aagaagcaac agcaggaaaa aaatcaaaaa 2340
 gtggtaaact gaggaaaaag ggttaacatga agataatga gacgagagag gacatggatg 2400
 cacagtttgtt agaacaacaa agcacgaact caagtgaatt tgaggctcca tccctcagt 2460
 acagttatgcc ttctgttagca gattctact ctatgtcattt ttctgttaat agttgttctg 2520
 acctagaaag catgaaaact tctttagtgc atgggtccag tgattatcac acccgcttgc 2580
 ctactgttaa cattcttcct gaggttagaaa atgaccgtct ggaaaattcc ccacatcagt 2640
 gttagcatttc tgggttacc caaactgctt cctgttcaga agtttacag ttgaatcata 2700
 ttgctgaaga acatggtaac aatggataaa aacctaattgt tgatttatat ttggcgtatg 2760
 cactaaaaga aacaaataac aaccactcac atcagacaat ggaattaaaa gttcaattc 2820
 agactgaaat tttagccccat aaatgtgcga gaataattac cactgtacaa cctgtttgg 2880
 agctgggtga actacatgtg actacttaag tttaggtta ccagcaaaag cgggtttca 2940
 ttatcataat gcagatacat ttctgtgtt cagcaaggca ttgtgtgtca tgtggatctt 3000
 agttacaaa ctatgaatgt aaggctttaa aagtgcatta tttaaggat aataaatttg 3060
 aagagcaaaag catgtttgt gtgtttgcca caaaacattg cttgaagcac atacttagat 3120
 agaaattggt cttatattat ataatcaata taaaatacta atgcaattct acagcattca 3180
 aatgaagaaa acttggggct tttaggataa gtggtagtg atatatttatt gaaaccacta 3240
 aagagataag tttaaaaaga ctgcataatgt tactctcagt atatgataact ctgtacatt 3300
 tctatattata tcggcataaaa ttccattttt ttcttcata tgcaatgtgg ttatataaaag 3360
 cttaatgcac ctcatttgc accatttggta tacttagaca ctttgagca gattgtggca 3420
 gttttgcac aactttggaaa tagaaatacc tggtactcta tcttggat tggatgtgc 3480
 atcttagagg aaaaaatgtt aaggtaaatgtt attaagcata tgacagcaac aaataagata 3540
 ctaaaaacta caaaataaaag tcccatttagg ttataaagtat tacaaaaaaat ccacctttct 3600
 ctaaggggaa gtttgatccc cattgattct tggtgcctt gggatcgact gggttttaaat 3660
 ggccttagtta tttgaggatt ttgctgtgtt gtttccatg tcttctctgg tcaccccttgg 3720

ttatatataa aaatacagga aatagataaa catgaatgtg attaataatg ctgaaaaagt	3780
attagcctac caaagacaca ctcaggctt agtgaataac tttacataac ctcagtttt	3840
aacacatgca tatcttctcc aaccatgaaa tcaaagcacg gtgcagaact tgtaccaagt	3900
acaaaaggtc catgtatgat tagcattatt ttctttgtc ttgtttatg gacaatgttcc	3960
agctgacata agcagaagt gccaaaata ctgcctgtac tgtaatttc ctgtataatt	4020
cacttaataa aaagcaggtt aacctcaatg atagcagttt aaatgttcta tcttatgtat	4080
ttcttttaag tattaccatt atggtgctac tgagcggtt ctttggtaa aaagaaaaat	4140
gccccatggcgc gcagttttcttccatcactt ttccctacca ggtccattaa tatgcttata	4200
acacttagtgc cagttatTTT atttgataat gcttatggta ttgtatatt tgttgcatt	4260
ccaattttgt ttaataatga gtgtgtaaac tgcatcgtt aaataatgt aaatactaat	4320
gtactgctgc aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa	4357

<210> 511
<211> 5476
<212> DNA
<213> Homo sapiens

<400> 511 ggacggccat actatTTTA tcttgcTTT tcgttctgtc gcagttactgt ttaatatgag	60
tccagcgacg gctctgtac tgTTTcTC TGTTAAATC gctcttgcgt cctcagcgtt	120
tatctcaggT GCGGAAGGTC TcacaggTTT ggAAATAGCG CCGGAAAAT CGATCCGCGG	180
agtggacacgg ctcgtaccac actgcaggGC CCGGAGGTCA AGATGGTGGC TGTAAAACTA	240
ggatcccTGa CGATTGCTTA Gcattaaggc CCGACATGGA ACCGGGGTGT GACGAGTTCC	300
TGCGGCCACC GGAGTGCCTG GTTTTGAGC CTAGCTGGC TGAATTCCA GACCGCCTG	360
GCTACATTGC GAAAATAAGG CCCATAGCAG AGAAGTCTGG CATCTGCAA ATCCGCCAC	420
CCGCGGATTG GCAGCCTCT TTTGAGTAG AAGTTGACAA TTTCAGATT ACTCCTCGCG	480
TCCAAAGGCT AAATGAACGT GAGGCCAA CTAGAGTGA ATTGAACCTAT TTGGATCAGA	540
TTGCAAATT CTGGAAATT CAAGGCTCT CTTTAAAGAT TCCCAATGTG GAGCGGAAGA	600
TCTTGGACCT CTACAGCCTT AGTAAGATTG TGATTGAGGA AGGTGGCTAT GAAGCCATCT	660
GCAAGGATCG TCGGTGGCT CGAGTTGCC AGCGTCTCCA CTACCCACCA GGCAAAAACA	720
TTGGCTCCCT GCTACGATCA CATTACGAAc GCATTATTA CCCCTATGAA ATGTTCACT	780
CTGGAGCCA CCATGTGCAA TGTAACACAC ACCCGTTGA CAATGAGGTA AAAGATAAGG	840
AATACAAAGCC CCACAGCATC CCCCTTAGAC AGTCTGTGCA GCCTTCAAAG TTCAGCAGCT	900
ACAGTCGACG GGCAAAAAGG CTACAGCCTG ATCCAGAGCC TACAGAGGAG GACATTGAGA	960

agcatccaga gctaaagaag ttacagatat atgggccagg tcccaaataatg atgggttgg	1020
gccttatggc taaggataag gataagactg tgcatagaa agtcacatgc ccccaactg	1080
ttacggtgaa ggatgagcaa agtggaggtg ggaacgtgtc atcaacattt ctcaagcagc	1140
acttgagcct agagccctgc actaagacaa ccatgcaact tggaaagaat cacagcagt	1200
cccagtttat tgactcatat atttgccaag tatgtccccg tggggatgaa gataataagc	1260
ttctttctg tgatggctgt gatgacaattt accacatctt ctgcttgta ccacccttc	1320
ctgaaatccc cagagggcata tggaggtgtc caaaatgtat cttggcgag tggaaacagc	1380
ctccctgaagc tttggattt gaacaggcta cccaggagta cagttgcag agttttggtg	1440
aatatggctga ttccctcaag tccgactact tcaacatgcc tgcatacatatg gtgcctacag	1500
aaccttgtaga gaaggaattc tggaggctgg tgagcagcat tgagaaagac gtgacagtt	1560
aatatggagc tgatattcat tccaaagaat ttggcagtgg ctttcctgtc agcaatagca	1620
aaaaaaactt atctctcgag gagaaggagt atgcgaccag tggttgaaac ctgaatgtga	1680
tgccagtgtc agatcgtctt gttctctgtc acatcaatgc agacatctca ggcatgaagg	1740
tgccctggct gtacgtggc atgggttct cagcattttg ttggcatatt gaggatcaet	1800
ggagttactc tattaaactat ctgcattttg gtgagccgaa gacctggat ggtgtaccct	1860
ccctggcage agagcatttg gaggaggta tgaagatgtc gacacctgag ctgtttgata	1920
gccagcctga tctcctacac cagcttgcac ctctcatgaa tcccaacact ttgtatgtccc	1980
atggtgtgtcc agttgtccgc acaaaccagt gtgcaggggg gtttgcatac acttttccctc	2040
gtgcttacca cagtggttt aaccaaggct acaattttgc tgaagctgtc aacttttgta	2100
ctgctgactg getacctgtc ggacgcccagt gcattgaaca ctacegcccgt ctccggcgt	2160
attgtgtctt ctccccacgag gagctcatct gcaagatggc tgccttccca gagacgttgg	2220
atctcaatct agcagtagct gtgcacaagg agatgttcat tatggtttag gaggagcgcac	2280
gtctacgaaa ggccttttg gagaaggcgc tcacggaggc tgagcggagag gcttttgac	2340
tgctccaga tgatgaacgc cagtgcatca aigtgaagac cacgtgttc ttgtcagcccc	2400
tggcctgtca cgactgccccca gatggcccttg tatgccttc ccacatcaat gacctctgca	2460
agtgtcttag tagccgacag tacctccggat atcggtagac cttggatgag ctccccacca	2520
tgctgcataa actgaagatt cgggtgtgat cttttgacac ctggggccaaac aaagtgcgag	2580
tggccttggg ggtggaggat ggccgtaaac gcagcttga agagctaagg gcactggagt	2640
ctgaggctcg tgagaggagg tttccataata gtgagctgtc tcagegactg aagaactgccc	2700
tgagtgaggt ggaggcttgc attgtcaag tccctgggct ggtcagtggc caggtggccaa	2760

ggatggcacac	tccacagctg	actttgactg	aactccgggt	ccttcttgag	catatggca	2820
gcctgccctg	cgccatgcat	cagattgggg	atgtcaagga	tgtcctggaa	cagggtggagg	2880
ccttatcaagc	tgaggctctgt	gaggctctgg	ccacactgcc	ctcttagtcca	gggttattgc	2940
ggtcctgtt	ggagaggggg	cagcagctgg	gtgttagaggt	gcctgaagcc	catcagcttc	3000
agcagcagg	ggagcaggcg	caatggctag	atgaagtcaa	gcaggcccgt	gccccctctg	3060
ctcacagggg	ctctctggtc	atcatgcagg	ggcttttgggt	tatgggtgcc	aagatagcct	3120
ccagcccc	tgtggacaag	gccccggctg	agctgcaaga	actactgacc	attcgcagagc	3180
gctggaaaga	aaaggctcat	ttctgcctgg	aggccaggca	gaagcatcca	ccagccacat	3240
tggaaagccat	aattcgtgag	acagaaaaca	tccctgttca	cctgccttaac	atccaggctc	3300
tcaaagaagc	tctgactaag	gcacaagctt	ggattgctga	tgtggatgag	atccaaaatg	3360
gtgaccacta	ccccctgtcta	gatgacttgg	agggcctgg	ggctgtgggc	cgggacctgc	3420
ctgtggggct	ggaagagctg	agacagctag	agctgcagg	attgacagca	cattcctgg	3480
gagagaaggc	ctccaagacc	tttctcaaga	agaattcttg	ctacacactg	cttgagggtc	3540
tttgcctgt	tgccagacgt	ggctcagaca	gccaaggcgc	tagccgggt	atggagaagg	3600
cgctgggtt	gtaccagtgt	gacacagagc	tgctggggct	gtctgcacag	gacctcagag	3660
accagggtct	tgtgttgg	gccttcaagg	aaggggaaaca	gaaggagaag	gagggttatcc	3720
tgcagctgcg	tcgcaccaac	tccatgggc	ccagttccact	ggcaccatcc	ctcatggcct	3780
cttcttcaac	ttctatctgt	tggtgtggc	aggtggccagc	tgggggtggg	tttgcagtt	3840
gtgacactgt	tcaggactgg	ttccatgggc	agtgtgtgtc	agtgccttccat	ctccctcacct	3900
ctccaaagcc	cagtctact	tcatctccac	tgctagccctg	tggggaatgg	gacacaaaat	3960
ttctgtgtcc	actgtgtatg	cgctcagcgc	ggccacgcct	agagacaatc	ctagccttgc	4020
ttgttgcct	gcagaggctg	ccctgtgggc	tgcctgaggg	tggggccctt	cagtgtctca	4080
cagagaggc	cattggctgg	caagaccgtg	ccagaaaggc	tctggccctt	gaagatgtga	4140
ctgtctgtt	gcccacagctg	gtctgagcttc	gccaacagct	acaggccaaa	cccgacagg	4200
aggaggctc	agtctacact	tccatgggc	cctgtgaccc	tatcagagaa	ggcagtggca	4260
acaatatttc	taagggtccaa	gggctgtctgg	agaatggaga	cagtgtgacc	agtccctgaga	4320
acatggctcc	aggaaaggc	tctgacactgg	agctactgtc	ctcgctgttgc	ccgcagttga	4380
ctggccctgt	gttggagctg	cctgaggcaa	tccgggctcc	cctggaggag	ctcatgtatgg	4440
aaggggccct	gtttgaggtg	accctggatg	agaaccacag	catttggcag	ctgtgtcagg	4500
ctggacagcc	tccagacctg	gacagaattc	gcacacttct	ggagctggaa	aaatttgaac	4560
atacaaggag	tcggacaagg	agccggqctc	ttqqaqadqcq	acaaqaacaaq	caaaqaatq	4620

atcagggttag	aaacgttgag	aatcttggtc	aacaggagct	tcaagtaaaa	agggctcgga	4680
gctcaggat	tatgtctcg	gtgggccag	aagaagaaca	ttatcaggag	aaagcagacc	4740
gtaaaatat	gttcctgaca	ccttccacag	accacagccc	tttcttggaa	ggaaacctaa	4800
atagtttaca	acacaaggat	tcaggcttct	cagctgcttg	tccttctta	atgcctttgc	4860
tacaactctc	ctactctgtat	gagcaacagt	tgtgacagtg	gcaccaaagg	tcattttgtgg	4920
ttgttttgtt	ttggtttgtt	cttaaatcct	actatctct	ggcctggacc	tcagaaggag	4980
ctttttgcct	atctataatt	tttcaactgcc	aattttgtat	atccctctctc	ctagatgtac	5040
tgttaaaagg	ttgggttcgta	aagtccacac	cccgatgctc	agaagtgtct	tgccagcaac	5100
attccctgcta	gcatacagga	gtgatttcct	aaaccagttt	catttctgtc	tgaataggga	5160
caaaacaatc	ttgaggaagc	ccaagtgcgt	acctttat	ttggccccac	cacccttttt	5220
ctgtacttca	atttttgttt	gtttttgttt	ttttgtccc	tgtcataaaa	tattttggtg	5280
cttcaaaact	tgtaccttca	ttgtacatcc	tttttttttc	tccccttggg	tcttattata	5340
aaagaagaca	atgtacgttg	taattacaa	aaagaatagg	aaaaaacaag	aatttcatga	5400
ctctacctgt	ggtcttatctt	taatttcatt	tcttttggta	aaaataaaac	aatgagtgatg	5460
tttggggaaaa	aaaaaaa					5476

<210>	512					
<211>	297					
<212>	DNA					
<213>	Homo sapiens					
<400>	512					
ttacgagcaa	gagttcatca	cgaccacgccc	gtgaggcagg	gcacacgcgg	gtcgccggcg	60
atgatgtccc	ccgcgaaggg	gacaacgaaa	acaagaggcc	gccggccgcg	gccacggatg	120
cgtagegggtt	acacaatgtt	ttgttggcg	ttttgtttca	tgcgtgtgtt	gtttttgttg	180
ttctctgtat	atatcggtg	gtggctttat	cgtcatcatt	attatcatca	ttcttggttc	240
catcatcacg	atgagtttc	tccgtttcc	tctccctccag	tggtagtcgt	gtatcat	297

<210>	513					
<211>	2294					
<212>	DNA					
<213>	Homo sapiens					
<400>	513					
aaaggaaaaaa	tccactgcac	ctccacttgg	tgactgacgc	cgtggccaga	aacatcctgg	60
agacgcttctt	ccacacatgg	atggtgccctg	ctgtccgtgt	cagttttat	catgccgacc	120
agctcaagcc	ccaggtctcc	tggatccccaa	acaagcacta	ctccggccctc	tatgggctaa	180

tgaagctggt gctgccagt gcctgcctg ctgagctggc ccgcgtcatt gtcctggaca	240
cgatgtcac ctccgcctct gacatctcg agctctggc cctcttgc cactttctg	300
acacgcggc gatcggtctt gtggagaacc agagtgactg gtacctgggc aacctctgga	360
agaaccacag gcccggcct gccttggcc ggggatttaa cacaggtgtg atcctgctgc	420
ggctggccg gctccggcag gctggctggg agcagatgt gaggctgaca gccaggcggg	480
agctcttag cctgcctgc acctcactgg ctgaccaggc ctgaggaagc cttggcggt	540
gggggtgtggc aggctggggg ctggatgtg atgggtgtct ctgctcaggaa catcttcaac	600
gctgtatca aggagcaccc gggctagtg cagctctgc cttgtgtctg gaatgtgcag	660
ctgtcagatc acacactggc cgagcgctgc tactctgagg cgtctgaccc caaggtgatc	720
cactggaaact caccaaagaa gttcgggtg aagaacaagc atgtgaaatt ctccgcaat	780
ttctacatca ctttcctgga gtacatggg aacctgtgc ggagagagct ctttgtgtgc	840
ccccagccagg ccccacctgg tgctgagcag ttgcagcagg ccctggcaca actggacggg	900
gaagaccctt gctttgagtt cggcagcag cagctcactg tgcaccgtgt gcatgtcaact	960
ttctgtcccc atgaaccgc accccccccgg cttcacatg tcacccttgc ggccagctg	1020
tccatggacc ggctgcagat gttggaagcc ctgtgcaggc actggcttgg ccccatgagc	1080
ctggccttgc acctgacaga cgcagaagct cagcgttcc tgcatttcgt cgaggctea	1140
ccagtgttgc ctggccggca ggacgtggc taccatgtgg tgtaccgtga gggccctta	1200
taccccgatca accagttcg caacgtggcc ttggcccagg ccctcacgcc ttacgtttc	1260
ctcagtgaca ttgacttctt gcttgcctat tctctatacg actacctcg ggaggccagg	1320
ggcggttca acagcagctc cacatgtggt tgtgcccacc cgtcgcata ggcaagatgg	1380
cccatggtgg tctagtcctg tggctaatgc cctgatgagt gtcactggcc cagtcctaga	1440
tgcggcttc ttctccccgtc ctcatgggtg ctctcttca gggcctccat tgagcagctg	1500
gggctggca gccggcgcaaa ggacgtactg gtgggtccgg catttgagac cctgcgtac	1560
cgcttcagct tccccccattc caaggtggag ctgttggct tgctggatgc gggcactctc	1620
tacacccatca ggtaccacga gtggcccgaa ggccacgcac ccacagacta tgcccgctgg	1680
cgggaggctc agggccctgtt cctgtgtcaaa tggccggcca actatgaacc ctacgtgtg	1740
gtgccacgag actgtccccg ctatgtatcc cgtttgtgg gttcggtcg gaacaaatgt	1800
gcccacatttggagctgaa tgcccaggaa tatgacgtcc tggtgtcgcc cgaggcttc	1860
accateccatc tgccccacgc tccaagctgc gacatctccc gttccgcctc cagccccacc	1920
tatcgtact gcctccaggc cctcaaggac gaattccacc aggacttgc cggccaccat	1980
ggggctgtctt ccctcaaata cttcccgaggc ctgcagcaggc cccagagcccc tgcccgaggc	2040

tgaggctggg	ceggcgctgc	ccctcattt	agcattgggc	agacaccagg	gcaacctgcc	2100
ctccgcacate	cctgtatattt	aaattattta	aggtctctgg	gaagggctgg	ggcagagcat	2160
ctgtgggggt	gggttcccc	cttgctgcta	ttgtatggct	ggggactgtt	ctctctctgc	2220
cccagccagt	ttggggctgg	tcccccacate	ttgaattgtt	tatecctttt	tcataattaa	2280
agttttaaaa	catc					2294

<210> 514
<211> 1542
<212> DNA
<213> Homo sapiens

<400> 514						60
ctcccttcca	ctcgcgagcc	ctcgacatg	gtggcccccgg	gtcccggtac	cagccggctg	
ggctcggtat	tccccttct	gctagtctgt	gtggatctgc	agtacgaagg	tgctgaatgt	120
ggagtaaatg	cagatgttga	gaaacatctt	gaattggca	agaaattact	tgcagctgga	180
cgcttagctg	atgctttatc	tcagttcat	gtgcctgt	atggtgaccc	tgataactat	240
attgcttatt	atcggagggc	tactgtcttt	ttagtcatgg	gcaaataaaa	agctgcactt	300
cctgatttaa	ctaaagtgtat	tcaatttgaag	atggacttca	ctgcagcaag	attacagaga	360
ggtcacttat	tactcaaaca	aggaaaactt	gatgaagcag	aagatgattt	taaaaaagtg	420
ctcaaatcta	atccaagtga	aatgaagaa	aaggaagcac	agtctcaact	tataaaatct	480
gatgaaatgc	agcggttgcg	ttcacaagca	cttaacgcctt	tttggaaatgg	agattataact	540
gctgctatag	cttcccttga	taagattttt	gagggttgg	tttggatgc	agaactacgg	600
gaacttcgag	ctgaatgtttt	tataaaagaa	ggagaaccta	ggaaagctat	aagtgacttta	660
aaagctgcgt	caaagttgaa	gaatgataat	actgaagcgt	tttataaaat	aagcacactg	720
tactaccac	taggagacca	cgaactgtcc	ctcagtgaa	ttcgggatag	tcttaaactt	780
gaccaggatc	ataaaaagtg	ttttgcacac	tataaaacaag	taaagaaact	taataagctg	840
attgagtcag	ctgaagagct	catcagagat	ggcagataca	cagatgtac	cagcaaataat	900
gaatctgtca	tgaaaacaga	gccaaggatt	gctgaatata	cagttcggtt	aaaggagagg	960
atttggccact	gtttttctaa	ggacgagaag	cctgttgaag	ctatttaggt	tttgtctgaa	1020
gttttacaga	tggAACCTGA	caatgtgaat	gccctgaaag	atcgagcaga	ggccttattt	1080
atagaggaaa	tgtatgtga	agctatttcg	gattatggaa	ctgctcaggaa	acacaatgaa	1140
aatgatcagc	agattcgaga	aggtcttagag	aaagcacaaa	gattattgaa	acagtgcgcg	1200
aaacgagatt	attataaaat	cttggggagta	aaaagaaatg	ccaaaaagca	agaaattatt	1260
aaagcatacc	gaaaatttgc	actgcgttgg	cacccagata	acttccagaa	tgaagaagaa	1320

aagaaaaaaag ctgagaaaaa gttcattgat atagcagctg ctaaagaagt cctctctgat 1380
 ccagaaaatga gaaagaagt tgacgacgga gaagatcctt tggatgcaga gagccagcaa 1440
 ggaggcggcg gcaacccttt ccacagaagc tggactcat ggcaagggtt caatcccttc 1500
 agctcaggcg gaccattna atttaaaattc cacttcaattt aa 1542

<210> 515
<211> 4346
<212> DNA
<213> Homo sapiens

<400> 515
 gcgtggcgca cagaaaagcgg aacctcccg gccagtcgcg cggtggtcac cctcttggga 60
 gctggggagg aggctgcggg ggctggccgg gctccttcgg gcgtcgcttc cgggaccggg 120
 tgcgcgggggt cccccggaaac gtgtgttcca ggtcctcccg cgccagtgtt cgtagtcccc 180
 gcctggtcgc ggccggccct cggggcgggg tgcaggcgcg cggcgcgcag gggggggggc 240
 ctgtggtctt ggcgcggggc cccggccgcg cggccagacc cgcctttttt ccccccgc 300
 cagcccgccc gcctggccgc ccccccacgcg tcgtgtcgcc gggaaagccgg gggagacag 360
 agcgcttggg atccacggcg ctggaccgcg tgcctccaa cagcgcggg cagagcggct 420
 ggccgcgcgcg gagcgcggag ccacgaccct cccctggccgc ctttgtctac tggccgtcg 480
 gcccggaaacc gcactctcc agggccgggg acgcgcgcgc agctgtcggt gacagctcct 540
 ccctaccgcg accctccggg gggggggggc ggtcggggccg gggccgtcta gcccgcgacc 600
 gcaagccgcg gctcgcggat cgatgcggcc gcagcagggg gacccgcgt tccccgaccg 660
 ctgcgaggcg cctccgggtgc cggccgcgtcg ggagcgcgggt ggacgcgggg gacgcggggcc 720
 tggggagccg gggggccggg ggcgtgcggg ggggtgcgcag gggcgcgggg tcaagtgcgt 780
 gctggtcggc gacggcgcgg tggcaagac gagcctggtg gtgagctaca ccaccaacgg 840
 ctaccgcacc ggtacatcc ctactgcctt cggacacttc tccgcgggtgg tgcgtgtgg 900
 tggccggccc gtgagactcc aactctgtga cactgcggga caggatgaat ttgacaagct 960
 gagggctctc tgctacacca acacagacat cttcctgctc tgcttcagtg tgcgtgacccc 1020
 ctcatcccttc cagaacgtca gtgagaaatg ggtgcggag attcgatgcc actgtcccaa 1080
 agccccccatc atccttagtg gaacgcgtc ggtatctcaga gaagatgtca aagtcctcat 1140
 tgagttggac aaatgcaaaag aaaagccagt gcttgcggag gggctcaagc tgcgtgcggc 1200
 gggaaatcaaa ggcgcctctt acatcgatgt ttcagccttg actcaaaaaa acctcaaaaga 1260
 ggtcttgcgt gcaaggccatc tgcgtgcgt tcaataactcg gacactcgcg aacagccaaa 1320
 gaagtctaaa agcaggactc cagataaaat gaaaaacctc tccaaagtctt ggttggaaagaa 1380

gtactgctgt ttcgtatgat gctggcaaga cacccagaaa ggctatttc agatgaaatc	1440
gatattagaa gctatattag ctgaaacaac tcctttact gcgtagaacc tatatcgaga	1500
gtgtgtgtat atgtattata ggaggagctc tcaattttat gtatttttc tgcccttaat	1560
tttcttgttt gtttagctt agggatgaga tacttatgca agatattttt gaagttaaatt	1620
aaacatttt cacatctctg gaaattttaga gttcttagacc tctggtaat ttataatctaa	1680
tatgaagaag acacctctaa tctggatgtt aagaatgaag ttctgtaca ttataatgtt	1740
cagaagagca aaagggagga acactatgtt taaccctctc ttgattaagg gctacttaat	1800
gcacagtgc ttatgtacac aggtcaacca tggtaacaat agttcttagc tttgaaactc	1860
catgcaaacc atgccttttt tttaaggagc aaaaatctga gaaaaaaagt gagagacctc	1920
tgcctacaaa acctcaaacc agtcaattttt gtcaattgtt aataccctgt tacttatgt	1980
ttaaaaacaa ccaacagaaa acatcccact gactgtatgg cactctgttag tcaaaaaagg	2040
aaacttcctt attgggactt ttctttctta gtccagttgtt gttgacacat atgaacacag	2100
acaaagtgtc atgcggagga aagcaagtgt tggcagtag tttcatgttt tagggagtgg	2160
ttcctgtgga gatcagaaag tgacattgc ttccgtact gtaatacgtg caccacactg	2220
cctcaatctt aggttaacgag ggcaacaggg agcacctgtc tggattgttt ttaaacctcc	2280
atactcaagc tgcctcttcg gcaggagggt gaatactttt gaaaggccaa cagcaagtgt	2340
ttgtgggaca caacacagat aattttttct taagtccggc aagatgtact tctctgtgt	2400
cacacccatg cacactcatg cacacagata cataggtctg tatggctgtt tttgtgttg	2460
attcagactt tcacaccatt aatggggaaa agcgtggcca caaaaacaga tgcttaggaag	2520
cttgggttcc tttttttgtt gaccctttt tgaaccaaca tctttttat tatattcaga	2580
gtatgtttt aagtgtatct taatatatac aaaaaaaaaatc aatctttttt tctaaacaaa	2640
aaataaaaatg aacatctttt gaaacctgtt aaaacaacca gttaaagccaa cagatggctt	2700
tcagggcagt agcagcagag gccagtgac tctgaggact cctgaggggc gggggctgtta	2760
gccagccagg tgcattccgg gaccatggcc cccatacttg gctgtttctt gtacaggtgt	2820
aatacatctt tcaaggtggc agctgttagg gctgaatctt ctggagaaaa aggtggccatc	2880
tcaggagaat agctttact ctggtagaa tgcttccgag acaccacaag gcagcctgaa	2940
cactcagttt cagggtcggtt cttggcggtt gtgacccaga gccacccaaag tcacatccac	3000
aactaatgtt gggaaatctgtt aaaggccagg agatagaaga aaaaaaaaaatc tctgtgggtt	3060
ttgtgttgc tttttttatgtt aaaaaagaaa tccagttgtt gttttttat agaaaaagttt	3120
aaagatcagg ttatacttta ggtaggggt tctattttt cctgttagta aataaaaatc	3180

acaattttcttggtaaca	aaagattaat	ctttaaacca	ctaaaataca	tagactgatt	3240
gattattcaa	cacattggaa	ttgatgtcg	tcatagttc	ctgaaggatt	3300
ctgaaggaaat	aaaatgatt	gtggaaatgc	ttaaaataga	cctaactgaa	3360
tcttgcgcgc	cctggcttac	ctatctgtgg	aaagctaggc	ttcccaggct	3420
tgtctgggtc	ctggagggtt	gggagggaag	atgagttatt	taactggtaa	3480
acactatttt	tatattaaag	taatggcat	ggagttatgt	gcaaattcat	3540
gaacacaaaa	cttggaaagaa	gttttatgc	tgtgacagt	tatggggct	3600
ccctggagggg	gacttccaca	cctctgcct	ttaggcatgg	gtggaaagt	3660
tacacctgtt	tggcccaagt	ctgaaagttt	tatacagtt	aattttaaat	3720
acaccttgg	ctgttagtgt	taaaaatcta	gtggggct	cttaaatgc	3780
aaaatatattt	gctgcattttt	atagaatagt	aaaggtacga	ttataactga	3840
catttttattt	tcttcgtgaa	catagagttt	ggggccgaaa	atgtttttaa	3900
tgagtttaat	ataaaagttgg	ttcacattca	agctaaaaaa	ttgttaaact	3960
tattgcagag	aagattttat	aagaatttttgc	ctttagagaa	tgccacttt	4020
aagtgttaggc	caccattata	atttataat	acagcatact	tcaaaactgt	4080
ttgttaccat	gtatgtataa	atggaccttt	tataacccttgc	ttctctgtct	4140
agagaaacta	cccaaggattt	acacaagcca	aaatgggagc	aaggccttct	4200
tcgtaacctg	gtgccttacc	aagttgtgt	tttctgtttt	caagtgtaaa	4260
cagaatgttg	tacttgaaaa	tgctataagt	gagatggtat	gaaataaatt	4320
aataaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			4346

<210> 516
<211> 2236
<212> DNA
<213> Homo sapiens

<400> 516						
ccccgagtctc	aggagcctgc	cttacagcag	gaggtgcagg	cctcgtaacc	tgcagagggt	60
cctgtgtctc	agcctgaccc	cttgcgcgt	tctgaccaca	gttacgagct	gcgcataatgg	120
gaagccatttgc	ggcgggatcg	ccgggggcgc	agggcccgga	ggaacaacag	tggagaagca	180
ggcgccccag	ccacacagga	gtctttctgc	tcagcctgtg	accagcttt	tctctcaccc	240
caccagctac	agcagcacct	gcggagtcac	cgggggccgc	tctttaagt	ccccctgtgc	300
atgcgtgtct	tccctagccc	ttcccgatgt	gaccagcacc	ttggagacca	tagcagcgg	360
tcacacttcc	tgtgtgtaga	ctgtggctgc	gccttcggca	cagaggccct	cctcctggcc	420

caccggcgag cccacacccc	gaatccctcg	cattcatgtc	catgtggaa	gacctttgtc	480
aaccttacca agttccctta	tcaccggcgt	actcatgggg	tagggggtgt	ccctctgccc	540
acaacaccag tccccaccaga	ggAACCTGTC	attggttcc	ctgagccagc	cccagcagag	600
actggagagc cagaggcccc	tgagccccct	gtgtctgagg	agacctcagc	agggcccgct	660
gccccaggca cctaccgctg	cctccctgtgc	agccgtgaat	ttgaaaggc	cttgcagctg	720
acccggcacc aacgttttgt	gcatcggtcg	gagcggccgc	ataaaatgcag	catttgcggc	780
aagatgttca agaagaagtc	tcacgtcgct	aaccacactc	gcacacacac	aggggagcgg	840
cccttccctt	gcctctactg	ctccaagccc	ttcaactcac	ctgccaacct	900
cggtctcacac	acacaggaga	gccccctac	cggtgtgggg	actgtggcaa	960
caaagctcca cactgaggca	gcacccgttg	gtgcacgtccc	agcacttccc	ctaccgctgc	1020
caggaatgtg	gggtcgcttt	tcaccgtct	taccgcctgc	tcatgcaccc	1080
acaggtgaat	acccttacaa	gtgtcgag	tgccccctgt	ccttcttgc	1140
ctggaggtgc	accagctcg	ggtccatgcc	gggcgcacgc	cccaaccgtg	1200
ggggctgcct	tccccctctc	actgcggctc	cgggagcacc	gctgtgcacgc	1260
caggccccac	ggcgctttga	gtgtggcacc	tgtggcaaga	aagtgggc	1320
ctgcaggcac	acgaggcggc	ccatcgacgt	gtgtggctg	gagaggtctt	1380
ccccctgcct	ctcgagcccc	acgggcccact	cgtgcacccag	ttgcacccctc	1440
ggaagactg	ctacagcatc	ccctgcggcc	cctgcccgc	gccccggct	1500
gagtgcaga	agctgttcag	cacagagaeg	tcactgcagg	tgacccggcg	1560
ggtagcgcc	cataccatg	tccagactgt	ggcaaagcgt	tccgtcagag	1620
aaagaccacc	ggcgctgc	cacaggttag	cgcccccttgc	cctgtgaagt	1680
gcctttgcca	tctccatgeg	cctggcagaa	catcgccgc	tccacacagg	1740
tactccgtcc	ctgactgtgg	caagactac	cgctccttct	ccaaacctcg	1800
aagacccatc	agcagcagca	tcaggcagct	gtgcggcagc	agctggcaga	1860
gccgttggcc	tggccgtcat	ggagactgt	gtggaggcg	tacccctgtt	1920
gagatctacc	ctctggccga	ggctgaggggg	gtccagatca	gtggctgact	1980
tcccttttgg	cacccatt	ccctgttgct	gaaggccctc	cagcatcccc	2040
gtacatactg	tgtcccttcc	tcttccatc	cccaaccact	tgtaaatgtt	2100
tattctctcg	tgaggggggt	gtctgggggt	ccttgacaca	cataaaagtg	2160
ttccacctct	tagcactgg	gacccaaaaa	atgaaaccat	caataaaagac	2220
aaaaaaaaaaa	aaaaaaaaaa				2236

<210> 517
<211> 1900
<212> DNA
<213> Homo sapiens

<400> 517	
acaactctca gaggagcatt gcccgtcaga cagcaactca gagaataacc agagaacaac	60
cagattgaaa caatggagga ttttgcgtg gcaaacacac ttttgcct caatttattc	120
aagcatctgg caaaagcaag ccccacccag aaccttcc tctccccatg gagcatctcg	180
tccacccatgg ccatggtcta catggctcc agggcagca ccgaagacca gatggccaag	240
gtgttcagt ttaatgaagt gggagccat gcagtttacc ccatgactcc agagaacttt	300
accagctgtg gggtcatgca gcagatccag aagggttagtt atcctgtgc gattttgag	360
gcacaagctg cagataaaat ccatttaccc ttccgtctc tcagtcgtc aatcaatgca	420
tccacagggg attatttact ggaaagtgtc aataagctgt ttggtgagaa gtctgcgagc	480
ttccgggaag aatatattcg actctgtcag aaatattact cctcagaacc ccaggcagta	540
gacttcctag aatgtcaga agaagctaga aaaaagatta attcctgggt caagactcaa	600
accaaaggca aaatccaaa ctgttaccc gaagggtctg tagatgggg taccaggatg	660
gtctgggtga atgctgtcta cttcaagga aagtggaaaa ctccatttga gaagaaacta	720
aatggcctt atccttccg tgtaaactcg gtcagcgcac cacctgtaca gatgtgtac	780
ttgcgtgaaa agctaaacat tggatacata gaagaccaa aggctcagat tctagaactc	840
ccatatgctg gagatgttag catgttcttgc ttgcttccag atgaaattgc cgatgtgtcc	900
actggcttgg agctgttggaa aagtggaaa acctatgaca aactcaacaa gtggaccagc	960
aaagacaaaa tggctgaaga tgaagtttag gtatacatac cccagttcaa attagaagag	1020
cattatgaac ttagatccat tctgagaagc atggcatgg aggacgcctt caacaaggga	1080
cgggcaatt ttcaggatgttggatggagg aatgcacctgt ttcttctga agtgttccac	1140
caagccatgg tggatgtgaa tgaggagggc actgaagcag ccgctggcac aggaggtgtt	1200
atgacaggggaa gaaactggaca tggaggccca cagtttgcgtt cagatcatcc tttttttttt	1260
cttattatgc ataagataac caactgcatt ttatgttgcgttgcagattttc ctcaccctaa	1320
aactaagcgt gctgttctg caaaagattt ttgtatgtca gctgtgtgcc tcagaattgc	1380
tatgttcaat tgccaaaaat ttagatgtt tttctacata tttctgtctc tctgttgcac	1440
ttctgttacc cactaaataa aaacacagaa ataatttagac aattgtctat tataacatga	1500
caaccctatt aatcatgttgg tcttctaaaa tgggtatgttgc cccatgttgc ttttgcctac	1560
tatcatgttta ttttataac attaactttt actttgttat ttatgttttataatgtt	1620

gagtttttaa attattgctc actgcctatt taatgttagct aataaaagtta tagaagcaga 1680
 tgcataatgc ctttaattgt tctcataatg aagaataagt 1740
 aggtacccttc catgccttc tgtaataaat atctggaaaa aacattaaac aataggccaa 1800
 tatatgttat gtgcatttct agaaaatacat aacacatata tatgtctgtc tcttatttcc 1860
 aattgcaagt atataataaa taaacctgct tccaaacaaac 1900

<210> 518
 <211> 1812
 <212> DNA
 <213> Homo sapiens

<400> 518
 tagcttaggca ggaagtcggc gcggggggcg cgAACAGTAT ctgtgggtac ccggaggcagc 60
 gagatctcgcc cggttttacg ttcacctcggttgtctgc accctccgtt tcctctccata 120
 ggcgacgaga cccagtggtt agaaAGTCAC catgtctatt ctcaagatcc atGCCAGGGA 180
 gatcttgcac ttcgcggga atccccactgt tgagggttgc accttcaccc caaaagggtt 240
 cttcagact gctgtgcccgttgcggccaa aactgggttac tatggggccc tagagctccg 300
 ggacaatgtt aagactcgctt atatggggaa gggtgtctca aaggctgttgc acacatcaa 360
 taaaactatt ggcctgccc tggtagcaa gaaactgaac gtcacagaac aagagaagat 420
 tgacaaactgtt atgatcgaga tggatggaaac agaaaataaa tctaagtttgcgttgc 480
 cattctgggg gtgtcccttg ccgtctgcac agctgggtcc gttgagaagg gggtccccctt 540
 gtaccggccac atcgctgact tggctggcaatctctgaagtc atcctggccag tcccgccgtt 600
 caatgtcatc aatggcggtt ctcatgtgg caacaagctg gccatgcagg agttcatgtt 660
 cctcccgatc ggtgcagcaaa acttcaggaa agccatgcgc atggagcagc aggtttatcca 720
 caacctgaag aatgtcatca aggagaaata tggaaagat gccaccaatg tggggatga 780
 aggccgggttt gctcccaaca tcctgggaa taaaAGAAGGC ctggagctgc tgaagactgc 840
 tattggggaa gctggctaca ctgataaggt ggtcatcgcc atggacgttgc cggccctccga 900
 gttcttcagg tctggaaagt atgacctggatcttcaagtc cccgtatgacc ccaggcaggta 960
 catctcgccat gaccaggctgg ctgacctgtcaagtccttc atcaaggact acccagggtt 1020
 gtctatcgaa gatccctttg accaggatga ctggggagct tggcagaagt tcacagccag 1080
 tgcaggaaatc caggtatgtgg gggatgtatct cacagtgcacc aacccaaaga ggatgcacaa 1140
 ggcgcgtgaac gagaaggctt gcaactgcctt cctgtcaaa gtcaaccaga ttggctccgt 1200
 gaccggatctt cttcaggcgt gcaagctggc ccaggccaaat ggttggggcg tcatgggtgc 1260
 tcatacgatccggggagactg aagataacattt catcgctgac ctgggtgtgg ggctgtgcac 1320

tgggcagatc aagactggtg ccccttgcgg atctgagcgc ttggccaagt acaaccagct	1380
cctcagaatt gaagaggagc tgggcagcaa ggctaagttt gccggcagga acttcagaaa	1440
cccccttggcc aagtaagctg tgggcaggca agcccttcgg tcacctgtt gctacacaga	1500
ccccctccct cgtgtcagct caggcagctc gagggccccc accaaacactt gcaggggtcc	1560
ctgtcttagtta gcgcgccacc gccgtggagt tcgtaccgct tccttagaac ttctacagaa	1620
gccaagctcc ctggagccct gtggcagct ctatgttgc agtcgtgtaa ttggcccaag	1680
tcatttgttt tctcgctca ctttccacca agtgtctaga gtcatgtgag cctegtgtca	1740
tctccggggt ggcacacaggc tagatccccg gtggtttgt gctaaaata aaaagcctca	1800
gtgacccatg ag	1812

<210> 519

<211> 330

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (113)..(113)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (270)..(270)

<223> n is a, c, g, t or u

<400> 519

tttttttttt tttttttggc cagatcaata gctaggtttaga aacctttca actggcacag	60
gagacaccat cctttgggtg ttgttctcta ctttccatg caaaaggcag tanaagatgt	120
ggaggacaga gaggaagagc tgagagtccct ggaaagccaa aaggctacac acatcacata	180
aactgattgg cctcaggaa aagactgagg ttcaaagagg tgacagactc catcaagggt	240
acatgactgg ctggttgcct gcagaagttt atgcaggccc caggccatc tctggctca	300
attacagccc aaaggctatc tccagccaca	330

<210> 520

<211> 348

<212> DNA

<213> Homo sapiens

<400> 520

acgtccctgg tagacggggtt agggggatct accagccag ggatcgctc ttccggcc	60
acgctgcttc accgataatcc aataaacccca tcccccgcac acgacgtctc cgcttatctt	120
tgttagcctca agaatccgtc cccacgttca cccatcccgaa gcaactccaca cgccataaca	180

aaccacggac acgacaaaatg catgcaaact tctcatttat tgggtctact actctgtgtt	240
gctacaggga gtgaagaggg tgaaggcaa gaaaaaaaaa aggaacaaaa taatagatta	300
gcagaaggaa taatccgtgc gaccgagctt gtgtttttt tcttataa	348

<210> 521
<211> 862
<212> DNA
<213> Homo sapiens

<400> 521 agccctctgt caaggttagct agaggcctgg gaaaggagat agccctgctc cggccccctt gaccttcagc aaatcacttc tctccctgcg ctcacacaga cacacacaca cacacgtaca tgcacacatt tttcctgtca ggtaactta tttgttagtt ctgcattatt agaactttct agatatactc attccatctc cccctcattt tttaatcag gtttccctgc ttttgcatt ttttccctt ctttttcac tgatttatta tgagagtggg gctgaggctc gagctgagcc ttatcagact gagatgcagc tgggtgtgtt gaggacttgt gtgggctgcc tgtccccgc agtgcgtgat gcacatgaca tgattctcat ctgggtgcag aggtgggagg caccagggtgg gcacccgtgg gggtagggc ttgaaagagt ggcacaggac tggcacgcct cagtgaggct cagggaaattc agacttagccct cgattgtcac tccgagaaat gggcatggta ttgggggtcg ggggggccgtt gcaaggacg cacatgagar actgtttggg agttctggg gagccctgct agttctca gttatgtctg tkggacactcc agtcccttga gacccacgt catgtagaga agttaacggc ccaagtggtg ggcaggctgg cgggacactgg ggaacatcag gagaggagtt cagagccac gctactgcg gaaaagttag gggaaactgc caaacaaagg aaaatgcccc aaaggccatat atkcttttagg gcctttggtc caaatggccc gggkgggcac tcttccagat agaccaggca actctccctc cc	60 120 180 240 300 360 420 480 540 600 660 720 780 840 862
---	--

<210> 522
<211> 315
<212> DNA
<213> Homo sapiens

<400> 522 aggtgaatga tgactacaat aacattgcaa ctattttttt cctggcatag ggaggtaata agaaactaaa tgatcgcatg gtatcatgtt gtattatata gatgggttta ggaatctata aagtatggag gtaggaagac accatatgtc caggatcaa acatcttca tattgaggta gtcttagtcaa gctgtttcat gtatcatgtt taggaagtgg tttaaggaag cttactccca cttcaagttt agcacccaaag caatcactaa ttctggagca caggaagact gctatctcat	60 120 180 240 300
--	--------------------------------

cattcacctt tgcag

315

<210> 523
<211> 972
<212> DNA
<213> Homo sapiens

<400> 523
atgacaccga cgacgacgac cgccggaaactc acgacggagt ttgactacga tgaagacgcg 60
actccttgtg ttttacccga cgtgcttaat cagtc当地 aacttcttg tgatcttcac catcacctgg 120
ggcggttct ttcttcttcgg ttccatccgc aacttcttg tgatcttcac catcacctgg 180
cgacgtcggg ttc当地atgctc cggcgttcttca acctc当地ggc cggcgttctt 240
cttttcttgc ttacactacc tctgtggatg caataccctcc tagatc当地aa ctcccttagcc 300
agcgtcggcgt gtacgttact cactgcttgc ttctacgtgg ctatgttgc cagtttgc 360
tttatcacgg agattgcact cgatc当地tac tacgcttattt ttacatgag atatc当地ctt 420
gtaaaaacagg cctgc当地ttt cgttattttt tgggtggatct ttgc当地gtat catc当地ctt 480
ccacacttta tgggtggatg caaaaagac aatcaatgta tgaccgacta cggactacttta 540
gagggtcagg accccgatcat cctcaacgta gaactcatgc ttgggtctt cgtgatcccc 600
ctc当地gttta tc当地gttactg ctactaccgc atttccggaa tggc当地gttgcgt gtctc当地gtc 660
cgccacaagat gtc当地gttgcgtt acgggtactt atagc当地gtc tgcttgc当地ttt tatcatcttt 720
tggc当地gttgcgtt accacacttac gctgttgc当地tgg gacacgtaa aactc当地cttca atggatctcc 780
agcagcgtcgc agttc当地aaag atc当地gttcaaa cgtgc当地gttca tcttgc当地cc gtc当地gtc当地cc 840
ttttgttact gtttgc当地tcaaa tccgcttgc当地tgg tacgttcttgc当地tgggacccaa gtttgc当地aaag 900
aactacactg tctgttgc当地tggcc gagtttgc当地cc agc当地gttcttgc当地tggat gtatc当地cttgcgtt 960
accacacgcat ga 972

<210> 524
<211> 949
<212> DNA
<213> Homo sapiens

<400> 524
tttctcggca cggcacaacg ccaccccttggg caaacctaat tccagtttgc当地tgg gatgccaccc 60
tgctgacgac aaggcacttc cttacaatgta gcctggaaatt ctaaggc当地ca gcttc当地acaat 120
ctgcaattgc acgttctgc ctttacaat aaagaacac acactttcc ttaccaccc 180
acacccacca aaaataccac cacactccaa cacacccac gaagaagc当地 agaaaagccca 240
aaactggccccc cccaccacca accgc当地ccccc cacgaatctg tcaatcatcc acaagacacc 300
cgccccc当地tctt gggcaccac ggc当地acggc cgccaaagccg ccacccccc当地tcttcccaggc当地cc 360

aqccccccaca	tgcgccacgt	cgtacatcac	gtcacccaac	gccaccgacc	tatgcgaat	420
cgcgegcata	gcccegtact	cgggccagca	gccccacccc	agccagccac	actgctcccc	480
ctcgacacc	acaccaagat	cgcgcaccc	aacgcaccca	ctccgcacca	caccccacac	540
caccccccacc	ccgctcgacc	agcatgtgtc	acaaccccg	acccgcaccc	tgagtaccac	600
gaaacggaca	ggctaaccgc	gcgaagtacc	tcacccaccc	gaccgaacgc	gatccacgg	660
cccgtaagcg	ctaattccag	actacacccc	catagctgc	cgcaatggtc	tgcacgtcca	720
ccccacacca	acagagatca	ctacagaaaat	atgcctccaa	ccccgcccac	gttAAactcc	780
ccactccaca	cgcagcaatg	tcactcgca	ccgcccctt	cacggtgtga	caggcttct	840
ccatagatgt	cggatcggcc	tccttactac	ctcccccctt	acgaaagagt	acacactcca	900
caaccacaga	cctccggcca	aggcgccgcc	cgcgcgcccc	gcccacgtg		949

<210> 525
<211> 2298
<212> DNA
<213> Homo sapiens

<400> 525						
aatagaagat	cgctcgaa	ttcttactct	cgataaagat	tataacaaca	tagaaaaatt	60
cttaaataga	attttaggca	tggaggtgca	tcagcagaat	gcgttatttc	agtatTTGc	120
ggacacac	actgcagtt	ttcaaaatgc	caaaaaaaat	ggaagatatg	atatggaaat	180
cttagatctt	ggttctggag	atgaaaaagt	gcggaaaagt	gatgttaaaa	agtttctgac	240
tccaggat	tcaacctctg	gccacgtaga	attatacaca	attagtgtag	agagggaaat	300
gtcatggag	gaagctacca	agatTTggc	tgagctgaca	ggaccagacg	atggctttta	360
cttgtcattt	caaataagga	acaacaagaa	aactgcattc	ttagttaag	aagtgaatcc	420
aaaaaagaaa	cttttcttag	tttatcgacc	aaatactgg	aagcagctca	aattagaaaat	480
ttatgctgat	ctaaaaaaga	aatataagaa	ggtcgtctca	gatgtgccc	tgtgcactg	540
gttagatcg	tataattcat	ctgcagatac	ttgtactcat	gcttattggc	gcggcaattt	600
aaaaaagca	agcttggggc	tagtttgta	aataggtctt	cgttgccgt	catattatgt	660
attatgttgt	tcaagtgtca	gtgtctggac	aaaagtttag	ggtgttctag	catctgtcag	720
tggcacaaac	gtgaagatgc	agatcgtgcg	gctaagaacg	gaagatggc	aacggattgt	780
aggtttgatc	attccggcaa	attgtgtgtc	tcctcttgc	aatctccat	caacttcaga	840
ccagctctaa	cagcttgcgg	tccaaacagaa	acagctatgg	caacagcatc	accctcagag	900
catcaccaac	ttgagcaacg	catgaagaac	agacagg	caacatggat	ggatctgaaa	960
tgctgttggaa	gcataatcatt	tgcataaaaa	tcaggagacag	tttccaaaga	attatatatt	1020

tttttcagtt	gtgctctcta	gttagttttt	ttggggagtaa	ggacaaacct	ggaatagata	1080
gcaaaaactga	aaatcagcag	tgctgatggt	ggtacatatg	tctttccctt	agtttctccc	1140
ctgataattc	ccatctgctt	ttacttcggg	tgagcagagg	gggatgtgtg	tgtgcgtgtg	1200
tgtcagtctg	tttgtgagtg	tgttaaaggc	tacagaccac	agttgggtta	aatgcttgg	1260
aacttcccaa	actggctta	ctttatgttt	atacagtgt	cagggttaac	gcagtagatc	1320
catgccattg	ctgtgggagg	tatccccgga	tgcgtgttt	ttgagtctat	aatatagaga	1380
aatatatatt	ggtttctttt	tccaacttaa	taggtttatt	aaagcatgaa	atgaaaggtt	1440
gcatatcatg	cattcaggtt	attttctaat	ttttgttctg	acagtgcgt	tctttggaa	1500
catgctgaaa	caagattaac	acaggagtcg	agtaacagag	agaaaacattt	gttagatgtt	1560
cagcatttgtt	tattgcattt	ttatagtgtt	tatacctggg	tattgcttca	aaccctgcag	1620
acccttcctt	ccccctctcc	ctgcccctggg	tttctggta	aggtaatgaa	tacatacatt	1680
tttctgtat	aaaactctta	aaagttaatt	ttaatgtatt	aatagtattc	ctaatgtgt	1740
ctgcagaaaat	ggcttatgac	ctcttaaattt	tacatttgc	acttaaagg	agtttttagaa	1800
ggaagtgacaa	attggcttc	atctgc当地	caatcgaaaa	ttacttcatt	atcttaattt	1860
gtcttgcac	tcataaaaag	gaaaccatac	ctgagttgt	gacaatgagg	aaacacttga	1920
ggcttcgtct	gtgtgttctt	ttgttattgt	tggttattgt	gttactcagt	aacttgaata	1980
ttgtttaatg	tggtttaaga	cgttaggttt	atctcaagct	gttaaaaatg	gtaatgtaca	2040
aatgtgaata	gacacttatac	tatataatat	gggttaagttt	tgtttgcct	ataatagatg	2100
tttataaaaa	caagtgggg	gacagtttgt	cttttatct	tttctttctt	tttctttctt	2160
ttcttttttt	cttttttttc	tttttttttt	tttttgcctc	cacaggttgc	actattgaaa	2220
aatcgagatt	gtataaacct	ggtaaaaagc	tgcaagatgc	caaaatctt	tagatgtcaa	2280
ataaaaaagtt	attataact					2298

<210> 526
<211> 618
<212> DNA
<213> Homo sapiens

<400> 526	tttttgcggg	ttggggcgaa	cgcgagagc	acgccatgaa	ggcctcgggc	acgctacag	60
agtacaagg	tgtgggtcgc	tgcctgccc	ccccaaatg	ccacacgc	ccctctacc		120
gcatgcaat	cttgcgcct	aatcatgtcg	tcgccaagtc	ccgcttctgg	tactttgtat		180
ctcagttaaa	gaagatgaag	aagtcttcag	gggagattgt	ctactgtggg	cagggttttg		240
agaagtcccc	cctgcgggtg	aagaacttcg	ggatctggct	gcgtatgac	tcccgagcg		300

gcacccacaa catgtaccgg gaataccggg acctgaccac cgcaggcgct gtcacccagt	360
gctaccgaga catgggtgcc cgccaccgcg cccgagccca ctccattcag atcatgaagg	420
tggaggagat cggccgcagc aagtgcgcgc ggcggctgt caagcagttc cacgactcca	480
agatcaagtt cccgctgccc caccgggtcc tgcgecgltca gcacaagcca cgcttaccca	540
ccaagaggcc caaacaccttc ttcttaggtgc agggccctcg tccgggtgtg ccccaaataa	600
actcaggaac gccccgggt	618

<210> 527
<211> 2640
<212> DNA
<213> Homo sapiens

<400> 527 ggcgcccaa cgtgggtcgc ctcttcgac acccagaaaa cctgcagaag aactggcttc	60
ggaaattta ccaggtcgtg cacacacaca agccgcactt catggccttg cactgtcagg	120
atgttggagg gaagaactac gaggcctcca tgcgttgcgt ggacaagttc gtcaaagaac	180
tattgtcggat tgatgcgtat aaagaatata acagggtcgc agtctacctg gatgaaaact	240
acaatccca ggagcacttc acggcactag gaagtttta ttttcttcat gagtccttaa	300
aaacacatcta ccagtttgac tttaaagcta agaagttatag aaaggtcgc ggcaaagaga	360
tctactcgga taccttagag agcacgcccc tgcgtggagaa ggagaagttt cgcagactac	420
ttccccgagt gcaaatggtc aagaaaaggc ttcatccgga cgagggtgggtt attgcagact	480
gtgccttgc ttgggtaat atccatcttt tccatgtgc ttcaatctg gtcgcctggg	540
aaacaagccc ttccgtgtac tcggaaatcc ggcacaaggc actgggtcac gtgtggaca	600
gaatcatgtc tcaagcgattc gagaaggttt cctactttgtt atttgggtat ttcaacttcc	660
ggctgtggattt caagtctgtc gtggagacgc tctcagccaa accaccgtat cagacgggtcc	720
ggggccggca caccaatgaa stggtaagc tcatatttcg tgatcgac aacgaccggaa	780
aggttatgtt ccagtttagaa aagaaactct tcgactactt caaccaggag gttttccgag	840
acaacaacgg caccgcgttc ttgggtttt acaaggagtt gtctgtctt aaggacagac	900
tgtatgaact ggacatctcg ttccctccca gctacccgtt cagtgaggac gccccccagg	960
gtgagcgtt catgaacacc cgggtcccgag cctgggtgtca cccgcatttc atgtcccccgt	1020
ctggccaaagg gctgggtgtc cgggtggaga gcgaggagaa gtttgtcacc tatgaccaca	1080
ttggggccaa cgtctgtcat ggagaccaca agcccggttt cctggccttc cgaatcatgc	1140
ccggggcagg taaacctcat gccccatgtgc acaagtgttg tgcgtgcag tgacgtggtg	1200
ggaagagatg ccagcgccac gagaggacac ttctgtgagcc tccctgttagc cgtggaccga	1260

atacgcactc	ttgaaagctg	catcgagaac	ccggccaagg	gccacctgct	agacggccag	1320
ccccacactt	cgttcagcc	tccggaccat	tccggagcag	ccccacatac	ctcaactgtct	1380
cgtctgtcta	tgtgacatta	agtagaaata	ttgggttttt	tttttttta	aataagtac	1440
agtcctgttg	tcaaactct	aatagacagc	aaaggggtc	tgtacccgtag	acttcacagt	1500
tttcagttt	taatgattgc	cagtggaggg	gcttccttcag	cacagagacc	ccccactgtg	1560
tccagggacc	ccctctgcca	ggtggaggtg	tgtccagggg	ctggggaaagc	cgagacgggc	1620
actccctctg	ccggccggca	gctgtggccct	gagcatggca	agggggctctg	tctctgcccga	1680
tgctccttcc	gccccactga	ctctgcgccc	tgtcacatgg	tttttgaatc	acactgcagc	1740
tgctttccat	ttttatatat	atataaatat	atataaatat	atactttta	aaaataat	1800
ataaaatcta	ccaaaactta	tgctaaatat	actttccagt	atgaacgcac	aggagagtc	1860
catcagcagg	cggttggaa	gtcttaggac	ttagtgcgt	gtccatcaac	acacaaattc	1920
gtaaaaaaca	cacatggcc	cgccatcg	ggtaaaatcg	gccccacagc	acgtctgcac	1980
cagcggggcc	ttactccat	ggcggttcc	tgtgtataat	taagaactga	atgtgaagtt	2040
tatagctac	ctgggtgtac	cttttaagaa	ttttgtaaac	cgtttgtctg	tcttttgtta	2100
ctgttttatg	gtgccaagta	tcctacgtt	caacaataat	atcatggag	aaatagaaat	2160
agcctagtt	gcttccaata	gaaactgctt	ttaacatgg	ctgtatataa	aaatattaaa	2220
gagaaacaaa	actgtacatt	tcctcattgc	tccgctacag	acaacccatg	tcataacctt	2280
gttgc当地	tttttctct	atagcagtaa	gtacagcatt	agaagggtat	tagagagtct	2340
gttgc当地	cacaaatgt	tttttttatt	gattttact	tttagaacact	acagatgtcc	2400
tgggaccggg	gtgaggcat	tagctgggt	tttgcgtggg	ataaatacta	ccactgcaag	2460
tgc当地gtgt	ccgctcgccg	atctgttctt	gggtggaaagca	caggccgt	tgcgtgtct	2520
gggtggccgt	gtccggggtt	caacacggag	tccggccccc	gggtttcagc	tgttggctgt	2580
tctgaggggc	cttttggaaat	gaccggctcg	gttcctaagc	aataaaattt	accgtggta	2640

<210> 528
<211> 743
<212> DNA
<213> Homo sapiens

<400> 528	agcgtgggta	aaagcaaaag	caacagctca	agcagccctcc	ttggagaaaa	cctgaaaatt	60
	caacttgttcc	aaagagaaggt	cttgcacgt	cctaaggatct	agacgctct	gacgtgagca	120
	tggctgagag	tgaggaccgc	tccctgagga	tcgttctgtt	agggaaaact	ggaagtggga	180
	aaagtgc当地	agcgaacacc	atccttggag	agggaaatctt	tgattctaga	attgctgccc	240

aagctgttac caagaactgt caaaaagcat cccgggaatg gcaggggaga gaccttcttg	300
tttagacac tccagggtctc ttgcacca aggagagct ggacaccacc tgcaaggaaa	360
tcagccgtg catcatctcc tcctgcccag ggcggccatgc tattgtccta gttctgctgc	420
tggccgctca cacagaggag gaggcagaaaa ccgttgcatt gatcaaggct gtctttggga	480
agtccatcatgaa gacatcgatgt tcactcgaa agaagagttt gagggccaga	540
gttccatgatccatgaa gatgcggatg tgggcctaaa aagcatcgtc aaggagtgcg	600
ggaaccgctg ctgtgccttt agcaacagca agaaaaccag taaggcagag aacgaaagtc	660
aagtgcgcg agttgggtgg aagctgatag agcaacacat ggtgcagtgc aacgaacggg	720
ccttactttt ctgatgacca ata	743

<210> 529

<211> 346

<212> DNA

<213> Homo sapiens

<400> 529

cttttaccc gttgcactgc tgagagcaag atgggtcacc agcagctgta ctggagccac	60
ccgcggaaat tggcccgagg ttctcgctct tgcgtgtct gttcaaacgg gcacggctcg	120
atccggaaat atggcctcaa tatgtgccgc cagtgttcc gtcagtaacgc gaaggatatac	180
gttccatta agttggacta aatgtcttc cttcagagga ttatccgggg catctactca	240
ataaaaaaacc atgataattc ttgttatata aaataaacat ttgaaaaaaaaaaaaaaaaaa	300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa	346

<210> 530

<211> 397

<212> DNA

<213> Homo sapiens

<400> 530

ctatgtgcc tgggctagtc tcaaactctc tgcctcaat gatcctccca catcagtctc	60
ccaaacagtt caacccatcac gaacaggaa ccatgcctgg tgtatTTTaaaatgttagc	120
tactagaata tttaaaatTC acatgtgcct cacatattat ttcttagaga attgcctcat	180
ttttgaaatc tcaggctgcc tgctctaaaa cctggatgtg ccaggaaagt aaaaatctgt	240
aaatTTTaaa ataattgtca ttatattgtctccatgtatg aataacacat atatattttt	300
cataaataaca aataatctta cacacaaatg aaaatgcagat tattttacag tcagggccag	360
tgtccagtgc atgaaggaag ccctgccaga aaaggat	397

<210> 531

<211> 1236
<212> DNA
<213> Homo sapiens

<400> 531
ttactgagac ttgttcctca ggccctggat ggctgcctcg atggccaggc tcagggtgtc 60
caggcttcggatgggggtct cgggtggctg ctcaaactgc cccacggcgt aggcccttcgc
ggccgtctcg tagataggca gcatgaaccc accctgggtt gtggagaaga tgcgccat 120
gacctgttttggaaactttt gcatcagggg caggcacagg ttgagagcgc ccaacaggc 180
cacgggggtg gcagcgttgc tgatcatgtt gcggtaatcg gaggaacggg ggcataattt
gtgggtgtc aattctttga ggctccacgc ggccttgacg ccttcgttac aagcatcgcc 240
tgtgcgtgc gccacttcgg gtggatgtgt cacgggcattt gtgtgcgttca tgagaaagg 300
agtggagagg gccagggtgc acatggtgc caggcgcacac cgacccgcattt ccacccact
cttcacactca tgattgcggg tgttagataat ctggatgccc ttgtgttca cctgcattt 360
tttgcaggct ttgatggcct catctaacac ctgggtgcata ctggaaatcg tgaagggcag 420
gttcttgcgtc tcaagagagc gattgggtttt gcggtacatcg cggctcacct cgtcaatctt
gacgegaccc cgcccgagtctt gcacgttggg tgtgcagaag ggggtgttct tatctttcat 480
gatattgcgc accttctcgatgttcaactc ggagatgcgt ttgctttctt tcttgcgggg 540
tccgggtgcgc gccccggccgc tgctctgtat gcccgcgc acgcagagagg aggaggccgc
gccaccaaaa cggccgcgc catgggtggctt cgaggtcaeg gatgctcctc cgccactgtct
gcatttcatc tccctggact cactctccga gtccgaagcc gaactgcagg aggaggaaga 600
cgaagaggaa ctatcttcat cggggccggcc caagggtatcg ggaagaggag ggtggttcat
ctggggagagc ggggtgcgtgg gagaggttac tccgggtgcgtt cccgtggccgg tggaaagg 660
agacgcggta gcaccgcggg ttccacttc ttccacccgtt tcttctcgatc tatcagat 720
cacgatacag cccgggttat cgataatctt gttgggtac tggatggta agtcgggtctc 780
gggcttgcgtat tcttctgtt tgatgagggg cagcat 840
1236

<210> 532
<211> 2034
<212> DNA
<213> Homo sapiens

<400> 532
aaaccccttggc catggtcaact tcccttttc caatctctgtt ggcagttttt gcccataataa 60
ccctgcggatggtacttcg gacagttta tagctgcagt gtatgaacat gctgtcattt
tgccaaataa aacagaaaca ccagttctc aggaggatgc cttgaatctc atgaacgaga 120
atatacgtatc tctggagaca gcgatcaagc aggccgttgc gcaagggtgtc cgaatcattt 180
240

tgactccaga agatgcacctt tatggatgga aatttaccag ggaaactgtt ttcccttatac	300
tggaggatat cccagacccct caggtgaact ggattccgtg tcaagacccc cacagatttg	360
gtcacacacc agtacaagca agactcagct gcctggccaa ggacaactct atctatgtct	420
tggcaaattt gggggacaaa aagccatgta attcccggtga ctccacatgt cctccataatg	480
gtctactttca atacaataacc aatgtggtgt ataatacaga aggaaaactc gtggcacgtt	540
accataagta ccacccgtac tctgagccctc agttaatgt ccctgaaaag ccggagttgg	600
tgactttca caccgcattt ggaagggttg gcatttcac gtgcgttgc atattttct	660
atgatccctgg tggttaccctg gtgaaagatt tccatgtgga caccatactg tttcccacag	720
cttggatgaa cggttgcgc cttttgacag ctattgaatt ccattcagct tgggcaatgg	780
aatggggagt taatcttctt gtggccaaca cacatcatgt cagccataat atgacaggaa	840
gtggtatcta tgcacccaaat ggtcccaaag tgtatcatta tgacatgaag acagagttgg	900
aaaaactctt ccttcagag gtggattcac atccccatc ctcgcgttgc tacccaaacag	960
ctgttaattt gaatgcctac gccaccacca tcaaaccatt tccagttacag aaaaacactt	1020
tcaggggatt tatttccagg gatgggttca acttcacaga actttttgaa aatgcaggaa	1080
accttacagt ctgtccaaag gagcttgcgt gtcatttaag ctacagaatg ttacaaaaag	1140
aagagaatga agtatacgtt cttaggagttt ttacaggatt acatggccga aggagaagag	1200
agtaactggca ggtctgcaca atgctgaagt gcaaaactac taatttgaca acttggac	1260
ggccagtaga aactgcttctt acaagatttg aaatgttctc cctcgttgc acatggaa	1320
cagagttatgt ttttcttgaa gtgtctactta ccgaaattca tctgtcacct ggaaaatttg	1380
aggtgctgaa agatgggcgt ttggtaaaca agaatggatc atctgggcct atactaacag	1440
tgtcaactttt tggggagggtgg tacacaaagg actcaattta cagctcatgt gggaccagca	1500
attcagcaat aacttacctg ctaatattca tatttataat gatcatagct ttgcaaata	1560
ttgtatgtt atagggcgtc tctttatcac tcagcttctg catcatatgc ttggctgaaat	1620
gtgttatcg gcttccaaag ttactaaga aactttgaag ggctatttca gtgtatgaa	1680
ccagtgagtc ctaaaatattt ttctctatca ataatttattt tttaagtatt atgataatgt	1740
tgtccatttt tttggctact ctgaaatgtt gcagtggttga acaatggaaa gagcctgggt	1800
gtttgggtca gataaatgaa gatcaaactc cagctccagc ctcatttgc tgagattttgc	1860
tgtgtatggg ggacttgcgtat gtatggggat gaggagtttcc agggccatttgc caaacatagc	1920
tgtgcccttgc aagagaatag taatgtatggg aatttagagg tttatgcgt aattcccttgc	1980
gacattaaag actatttgaa ttcaaaaaaaaaaaaaaaaaaaaaaaa aaaa	2034

<210> 533
<211> 4500
<212> DNA
<213> Homo sapiens

<400> 533	
cggttggttg a gtgaaagcg gtcgcatgt cgcggggag cgacacat cctggagctg	60
gcggccgcg c agcaa atgg gacca accag ctccagcccc acttcttcc ctccgcag	120
cggccccagg tggggaggtc accagc agtg gggaa ggtcc tggggcacc acagat gctc	180
cttcaggagc cttggatgtc gtcgtc tggctgcca gattaat gcc atgctcatgg	240
caaaaaggaa gctgaa acca actcaga atg cttctgagaa gttcaggct cttggcaa ag	300
gcctaactag caataaa agc aaggat gacc tgg tggtagc tgaagt tagaa attaat gatg	360
tgcctctcac atg taggaa ac ttgctgactc gaggac agac tcaagac gag atc agccgac	420
tttagtgggc tgca gat tca actc gaggaa ggttcatgac aactgaggaa aaagccaa ag	480
tgggaccagg ggatcgtcca ttat atcttc atgtt caggg ccagac acgg gaatt tagtgg	540
acagagctgt aaacccgatc aaaga aattt tcacca atgg agtggtaaaa gctgcc acag	600
gaaca agtcc aactttaat ggtgca acag taactgtcta tcaccagcca gcacccatcg	660
ctcagttgtc tccag tttttt acggcaga agc ctcccttcca gtcaggatg cattatgttc	720
aagataaattt attt gggctt ctaga acatg ctgtt accac ttttaatgtc aaggaga agg	780
tggaaagg tcc aggctgtcc tatttgcagc acattc agat taaa acagg tgc acaa agtct	840
tcctcg gggg caaagg ttc a ggctgc attt g agccagc atc tggccg agaa gctttt gaa	900
ctatgtat tta catc atg cacc ccaaa ac caga aggc ct ggctgt gec aaga agctt	960
gtgaga atct tttgca aaca gttcatgctg aatactctag attt gtaat cagattaata	1020
ctgctgtacc ttta ccaggc tata caca ac cctctgctat aagtagt gtc cttcc tcaac	1080
cacca tattt tccatccaa tttt ggcttat gttt ttttccc cttcc tcaac	1140
agccagttca accttcc tac ggat tacc a gcat agt gec acca gctt tca tttt tttt	1200
ctggagg tttt gccggc atta cctact ggag ttttcc cttcc tcaac	1260
caca agt gca gcttcc agt agca ctggac agat tcc gat ggtt ggtt cttt tttt	1320
ctgctt ctgtt caaa actg ec ttgc ctgt gttt ggggggggggggggggggggggggggggg	1380
cacttccaa ag tca gccccca gac a gaga a gac gat tca c agat gac aggg agt a	1440
ggaa atctgg actg tttt gta ttttcc ttttcc ttttcc ttttcc ttttcc ttttcc ttttcc	1500
gcttctccag tca gaa atg agt gat gttt gttt gttt gttt gttt gttt gttt gttt	1560
aagagagaga gagggacagg cagttt gat gtc ctcc acca gac cttt ccag tttt gttt	1620

aaacagagtc	cgtgaaagg	aatgggtctg	ggacctaac	agggagccat	ggtgagtgtg	1680
ataatgcgtgg	gggaacaggg	gagttggctaa	gactggtcta	aagctattag	tttctcagc	1740
cgggcgcagt	ggctcacgcc	tgtatcccc	gcactttggg	aggccaggg	gggcagatca	1800
cctaaggta	ggagttcaag	accagttgg	ccaacatagt	gaaatccat	ctctactaaa	1860
aataaaaaaa	ctaggggca	ttgggttggg	cgccctgtaat	tccagctact	cagggggttt	1920
aggcaggaga	atcgcttcaa	cctgggaggc	agaggttgc	gtgagccaag	atcagaccac	1980
tgccctccag	cctgggcaat	agagcaagac	tccatctcat	aaataaataa	atacataataat	2040
aaagctatta	atttctaac	ctgatgttca	ttcaggtgtt	taatccaacc	tctataatct	2100
gttggccagt	aaaaataactt	ttgggctggg	cacgggtggct	cacgctgtat	atcccagcac	2160
tttgggaggc	caaggtgggc	ggataacctg	aggtcaggag	ttttagagcca	gcgtggctaa	2220
cacggtgaaa	ccccgtctct	actaaaaata	aaaaaattaa	gctgggcatt	gtgggtcatt	2280
cctgttaattc	cagcggcttg	gaaggcttag	gcaggagaat	cacttgaact	ttgggggttgg	2340
aggttgcagt	ggggcagat	cacaccactg	catccagcc	tggcactag	agtgagactc	2400
tgtctcaaaa	aaaaaaaag	agaaagagaa	aatagtttct	aaaaaattgt	atacagacaa	2460
ccttttattt	ccaacaaacg	tgtgccgaga	gagagagaga	aaaaatagtt	ttaaaaaaaat	2520
tgtatacaga	caaccccttg	tttccaacca	acgtgttatct	aaaaaagagt	tagtcactt	2580
attttataca	tagcatcgt	gaatagtaat	gagttggtagg	tcatttcaaa	atccctgttgc	2640
ctatattatg	tgaataccag	gaggtcatct	gatacggact	taataaaggt	tgatttgtt	2700
ttatattggg	agctgagcca	caccccccct	tataactcta	ttggtcagta	atggtcagtt	2760
tgtggctgtt	aggaaaatgt	tgccttttag	cattccagaa	ctctaaatcc	tgttagaggta	2820
catggatat	tttattcttt	gcctgtactc	ataaaaatga	acagaagaaa	atacgttttt	2880
ttcttttctt	aacttctttt	cttttaactc	tttaaaaggt	gaaatatcag	ccctcaagag	2940
actcaactgc	taactttctt	ttttttcttt	ttttttcttt	ttttttgttt	tctttttct	3000
ttctctgttt	tcttacatgg	ttctggtgga	ttcacatgg	ctgatgtgg	tgctgttttt	3060
cgtgtatct	tcaacgtttt	tgggtgacca	ttgaccctgt	gacctcaaaa	ttgtgtccaa	3120
ctaaccactt	aaaattaaca	tctttttttt	aattaacgaa	tttatggtat	tttttttttt	3180
cccttggcgg	ggatgggggtt	gggggtgttt	tttctctatt	ctagattatc	cagccaagaa	3240
gtgaaaact	acagagaagg	gatttggctt	ggtggtttat	gctgcagatt	catctgtatga	3300
agaggaggaa	catggaggtc	ataaaaatgc	aagtagtttt	ccacaggct	ggagtttggg	3360
ataccaatat	ccttcatcac	aaccacgagc	taaacaacag	atgccattct	ggatggctcc	3420
ctagaaaca	gtgaaacaga	gttttgaccc	tcagtgtactc	ttcttagcaa	taatgtcatgc	3480

atttggatcta	acaagactct	ggggcctgt	ctggaaacca	tctggaccc	tgcgaaagt	3540
agagattcag	tgccccctt	tcttaaagg	gttccttaac	aaccacaaaa	atcctttattt	3600
ctgcagttgc	ataagaatctg	ttaaaattt	attagaatca	caaatttac	tcaagagctt	3660
ttaaacagtt	ggtgaaatgt	gcttgtccaa	caaagcatcc	taacagggtc	gttcccatac	3720
acatttgacc	tggtcagcct	tttccagggt	aatagcccc	gttctgacat	aaagaaaagg	3780
ttatgttat	tttactactg	tttggtcaat	tttgatatat	aactggttac	aaacagagcc	3840
ttactattt	ttagtgggaa	aatgatttta	agaccgtcct	tttcagttatt	taattctgac	3900
agatctgcat	ccctgtttt	ttttggatta	ttctgtttt	ggaaaatgt	gtctcattt	3960
aaactgttgg	atatacgctgg	atccctggata	ggaaaatgaa	attatttttt	cattgtgtt	4020
ttaatttggg	gtgatccaaa	gctggcacct	tcaggcacat	tggtctcata	gccattactg	4080
tttttattgc	ccttctaaaga	tcctgtcttc	agctgggtca	gagaaaactt	cttgcactaaa	4140
actggtcaga	actcatcaca	gaaatgaaat	acagtggtct	ctctctccca	gaactggtt	4200
cagctaaaac	agagagatct	gactgctggc	tataggattt	tggaacttaat	gactgaaatt	4260
gcaaaattgtc	ctttttctt	gcattacaga	ttttggccaa	ataactttt	gtatcaaata	4320
tttgcattttt	aaatgtgtt	aaatgtgtt	ctgaaccagg	aatagtttga	gatatttgaac	4380
tttgcattttt	gcacatttga	atacttttgc	ggctggctt	gtataaaactt	atccctctgtt	4440
ttccatataat	tttgcattttt	tttgcattttt	tttgcattttt	tttgcattttt	tttgcattttt	4500

<210> 534
<211> 594
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> misc_feature
<222> (15)..(64)
<223> n is a, c, q, t or u
```

```
<400> 534  
ggggacatta gtttnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnntgtgtc tcatgaatag gaaagaaaagc agatgtaaag agttacataa aagcaaacag 120  
cttgcgtctgg ttctgggtc taacaattac gacttaaaca atggaggccaa agaaaaatac 180  
attagatgtat tctcaacctg gaaagcaaga ctgcaattta taaccacaaa aacaaagatc 240  
tactgtctcc cagataccgg aatggtaac ccggatattt gaggcttcca aggcaggaaag 300  
ataaaggaga atcagacccc tgagcaggga ctctggagca gcactccagg accctgccta 360  
gagactaaggc ctcaggtggc gcagtqaqt agacatctcc tcacaccagg ttcgtctgg 420
```

agatgtacac agattggggt gttgggttag ggcctgatgg gggaaaggaa agagagaact	480
gctatacggtg aatctctctg tggcttggtag tgggaccctg cgccctttaa attagggcat	540
attttacaaa aacttattat tctacacagc ctttcttggg ctttacaga acga	594
<210> 535	
<211> 1721	
<212> DNA	
<213> Homo sapiens	
<400> 535	
cgggtgttaga tttcacaacc cagggggcgg agccaggatg atgaccccgccccccta	60
aataattcttc cggggaggaa cacggaagca gcaacccggg tggacccggg agagaggagg	120
cactactggg gaccttaagct ggttctcaaa tgccctctcc ttccctccca aagccctccca	180
ggcttccat ggtccctaa tccccgggttc tcagcgtgac attccagagc aaacacagct	240
ccccattact ctataccagg cactggcatg gattaattta tctaattcaca acatcccagt	300
aagatatgcc ctgccttc tgcacact ctatggctgg cattcacctg tggggccagg	360
tgcggaaactcc tggcttgcc gtcacatgcct tactggagct gctctgtaa cctcctgctg	420
cttcctctcg gacctcgatt cagccatcat gaatttacca gcatagagca tgtgattcca	480
cacccatcaag ctttgcaca tgcgtgtccc tgccagcgc cctctttgg ccggccctacc	540
ccgggacccct gactactctg tgcctctgcct ctactcacct ccctcacccct ccagcatgtg	600
tttgcctgtt aacatgaagt gtacaaatgtt ctggggctct tccctggaca aggctctggaa	660
agcgtacagc tcaactggcc aggactcccg agccagagac cttggatgc cctgctctg	720
gggacacagt gaggactgca gactgcggc cagggtgggg ctcaggccct tcggccacatg	780
aggctgcccc ctccccccagt ccagacctgc agaagcgtg ctgtaatgac caggacattt	840
tgaagaggca tcacaacgtt tctaagaagc ctttggagac cagctttccaa aagtcaag	900
ccaaagaccat tgcgtgtt cccgactccc agaagctctt gcgtgtgaa cttggatgc	960
tcaagagccca gttacaggcc cagaccaagg ctttcgagtt cctgaaccac tcagtgacca	1020
tgtggagaa ggagagctgc ttgcagcaaa tcaagattca gcagcttgaa gaggtgtga	1080
gccccacagg ccgcaggaa gagaaggagg agcacaagtg gggcatggag caggccggc	1140
aggagctgtt tggggccctg acccaaggcc ttcaaggcccttggcttggagcc ctgcgtgaca	1200
gtgaggagat gcagccggcc cgcaccactc gctgcctgca gctgctggcc caggagatcc	1260
gggacagcaa gaaggctctg tggaggaggc tggaaacttgtt gctggggaggat gtcacccatca	1320
tctatcgaa gctccaaagcg caggaggatg agatctcaga gaacttgggtt aacattcaga	1380
aaatgcagaa aacgcagggtt aaatgcgcga aaatccctgac caagatgaag cagcagggtc	1440

atgagacacgc	cgcctgtccg	gagactgaag	agataccgca	gggagccagt	ggctgctggaa	1500
aggatgacct	ccagaaggaa	ctgagtgata	tatggctcg	tgtgcacgtg	ctgcagaact	1560
ccatagacag	cctcactttg	tgctcgaaaa	cctgtcccaa	ggcctcgagc	ctaagaggcc	1620
acaaggggca	ccagtgcctg	agccctccac	tcccctctg	ggactctgac	tccgactgtg	1680
accaggacat	ctcccaagcca	cctttagca	agagcggccg	c		1721

<210> 536
<211> 526
<212> DNA
<213> Homo sapiens

<400> 536	cgcctgcgggt	cccccaggag	ttaaggctg	tggtagacta	tgttgtacc	actgcactcg	60
tgcttgagca	acagagcaag	accgcatttc	aaaaacacaa	aaacaacacc	tatccttttg		120
ctttgctgcc	agaaaagaca	aaaagcacaa	ataaacaaggc	acctgacaggc	gttatagtg		180
gagaccgagt	tctatgatgt	cgttaaagtg	gggcacggca	cagagatgga	gctgtactct		240
agacagggtg	ttctgaatca	ggaatggact	tacaaaacat	ctgcagtcag	aaattcacat		300
acagactata	gtagatcaa	agtcatttt	aaactatcaa	tgaggaaaaa	agcaattcat		360
ttacataaca	ttctctttcc	aactcaaaca	tcaggtacaa	attgtttct	tttagcatat		420
gccagaaatc	tgtcattaca	caatagctt	gcaagtgtga	cacaagatac	tgccactttc		480
tctacacaaa	gaccacccca	aacaccagct	ttgtttaaaa	cattac			526

<210> 537
<211> 1837
<212> DNA
<213> Homo sapiens

<400> 537	tttttcgcaa	cggtttgcc	gccagaacac	aggtgtcg	aaaactaccc	ctaaaaggcca	60
aaatggaaaa	ggaaaagact	catacaaca	ttgtcgcat	tggacacgt	gattcggca		120
agtccaccac	tactggccat	ctgatctata	aatgcgggt	catgcacaaa	agaaccattg		180
aaaaatttga	gaaggaggct	gctgagatgg	gaaagggtct	cttcaagtt	gcctgggtct		240
tggataaact	gaaagctgag	cgtgaacgtg	gtatcaccat	tgatatctcc	ttgtggaaat		300
ttgagaccag	caagtactat	gtgactatca	ttgatgcccc	aggacacaga	gactttatca		360
aaaacatgt	tacagggaca	tctcaggctg	actgtgtctgt	cctgattgtt	gctgtgtgt		420
ttgggtgaatt	tgaagctgg	atctccaaga	atgggcagac	ccgagagcat	gcccttctgg		480
cttacacact	gggtgtgaaa	caactaattg	tcgggtttaa	caaataatggat	tccactgagc		540

caccctacag ccagaagaga tatgaggaaa ttgttaagga agtcgact tacattaaga	600
aaattggcta caaccccgac acagtagcat ttgtgccaat ttctgggttg aatgggtaca	660
acatgctgga gccaagtgc aacatgcctt gggtcaaggg atggaaagtc acccgtaaagg	720
atggcaatgc cagtggaacc acgctgttg aggctctgga ctgcataccta ccaccaactc	780
gtccaaactga caagcccttg cgccgcctc tccaggatgt ctacaaaatt ggtggtatttgc	840
gtactgttcc tggtggccga gtggagactg gtgttctaa accccgtatg gtggcacct	900
ttgctccagt caacgttaca acggaagtaa aatctgtcg aatgcaccat gaagctttga	960
gtgaagctct tcctgggac aatgtggct tcaatgtcaa gaatgtgtct gtcaaggatg	1020
ttcgtcgtgg caacgttgc ggtgacagca aaaatgaccc accaatggaa gcagctggct	1080
tcactgtctca ggtgattatc ctgaaccatc caggccaaat aagcgcggc tatgccccctg	1140
tattggatttgc ccacacggct cacattgcat gcaagttgc tgagctgaag gaaaagatttgc	1200
atcgcgcgttc tggtaaaaag ctggaagatg gcccattaaat cttagtgc ggtgtatgc	1260
ccattgttga tatggttctt ggcagccca tgggtgttga gagcttctca gactatccac	1320
ctttgggtcg ctttgctgtt cgtgatatga gacagacagt tgccgtgggt gtcatcaaag	1380
cagtggacaa gaaggctgc ggagctggca aggttccaaat gtctggccag aaagctcaga	1440
aggctaaatg aatattatcc ctaataccctg ccacccact cttaatcgtt ggtggaaagaa	1500
cggctcaga actgtttgtt tcaattggcc attaagttt agtagtaaaa gactggttaa	1560
tgataacaat gcatcgtaaa accttcagaa ggaaaggaga atgtttgtt gaccacttgc	1620
gtttttttttt ttgcgtgtgg cagtttaag tttagtgg ttaaaaatcgt tacttttaaa	1680
tggaaacaac ttgacccaaa atttgtcaca gaatttttag acccattaaa aaagtttaat	1740
gaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa	1800
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa	1867

<210> 538
<211> 1697
<212> DNA
<213> Homo sapiens

```
<400> 538
ggatcgaggg gactctgacc acagcctgtg gctgggaagg gagacagagg cggcggcggc 60
tcagggaaaa cgaggctgca ttgggtgttag taggaagatg tcgggcgagg acgagcaaca 120
gggcaaaact atcgctgagg acctggtcgt gaccaagtat aagatggggg gcgacatcgc 180
caacagggtt ctccgttctt tggttggaaagc atcttagctca gggtgttcgg tactcagect 240
gtgtgagaaa ggtgtatgcca tgattatggg aqaaacaqqq aaaatcttca agaaaagaaaa 300
```

ggaaatgaag aaaggatttg ctttccccac cagcatttcg gtaataact gtgtatgtca
cttcccccct ttgaagagcg accaggatta tattctcaag gaaggtgact tggtaaaaat
tgaccttggg gtccatgtgg atggcttcat cgctaatgta gtcacactt ttgtgggtga
tgtagctcg gggacccaag taacagggag gaaagcagat gttattaagg cagtcacact
ttgtgctgaa gctgccctac gcctggtcaa acctggaaat cagaacacac aagtgcacaga
agcctggAAC aaagtggccc actcattaa ctgcacgcca atagaaggtt tgctgtcaca
ccagtttgaag cagcatgtca tcgatggaga aaaaaccatt atccagaatc ccacagacca
gcagaagaag gaccatgaaa aagctgaatt tgaggtacat gaagttatgt ctgtggatgt
tctcgtcagc tcaggagagg gcaaggccaa ggatgcagga cagagaacca tatttacaa
acgagacccc tctaaacagt atggactgaa aatggaaaact tcacgtgcct tcttcagtga
ggtgaaagg cgaaaaagg ccatgccgtt tactttaaga gcatttgaag atgagaagaa
ggctcggtatgg ggtgtggtgg agtgcgcCAA acatgaactg ctgcaaccat ttaatgttct
ctatgagaag gagggtgaat ttgttgcCAA gttttttttt acagttctgc tcatgcccAA
tggccccatcg cgatggatcca gttttttttt cgagcctgac ctctacaagt ctgagatggA
ggtccaggat gcagagctaa aggcccttcc cttaggttct gcaagtcgaa aaacccagaaa
aaagaaaaaa aagaaggcct ccaagactgc agagaatccc accagtgggg aaacatttaga
agaaaaatgaa gctggggact gaggtgcgtc ccatctcccc agcttgcgtc ttctgcctca
tcccccttccc accaaacccc agactctgtg aagtgcagtt ctctccacc taggaccggc
agcagagcgg gggatctcc ctgccccac cccagttccc caacccactc ctttccaaca
acaaccagct ccaactgact ctggcttgg gaggtgaggc ttcccaacca cggaaagacta
ctttaaacga aaaaaagaaa ttgataata aaatcaggag tcaaaaattca tctgtttca
ggcccttctt tctagccctt tctactactc tctgtttggt caaggtttgt gccccactac
agaacaggc taaatttagcc accaccactg aaaactcagc cgaattttt tataccactc
tgacgtcaacg attttttt
1697

```
<210> 539  
<211> 1283  
<212> DNA  
<213> Homo sapiens
```

```
<400> 539
ctctctgtc ctcctgttcg acagtcagcc gcatcttctt ttgcgtcgcc agccgagcca 60
categctca gacaccatggg gaaggtaag gtccggagtca acggattttg tcgtattggg 120
cgcttgtca ccagggtctc tttaactct ggtaaaagggg atatgtttgc catcaatgac 180
```

cccttcattt acctaacta catgtttac atgtccaat atgattccac ccatggcaaa	240
tccatggca ccgtcaaggc tgagaacggg aagcttgtca tcaatggaa tccccatcacc	300
atcttccagg agcgagatcc ctccaaaatc aagtggggcg atgctggcgc tgagtaacgtc	360
gtggagtcca ctggcgtctt caccaccatg gagaaggctg gggctcattt gcagggggga	420
gccaaaaggg tcatcatctc tgccccctct gctgatgcc ccatgttcgt catgggtgt	480
aaccatgaga agtatgaca cagcctcaag atcatcagca atgcctcctg caccaccaa	540
tgcttagcac ccctggccaa ggtcatccat gacaactttg gtatcgtgga aggactcatg	600
accacagtc atgcccatac tgccacccag aagactgtgg atggccctc cgggaaactg	660
tggcgtatgat gccggggggc tctccagaac atcatecctg cctctactgg cgctgccaag	720
gtctgtggca aggtcatccc tgagctgaac gggaaagctca ctggcatggc ctccgtgtc	780
cccaactgcca acgtgtcagt ggtggacctg acctgcccgc tagaaaaacc tgccaaatat	840
gatgacatca agaagggtgtt gaagcaggcg tggaggggcc ccctcaagg catcctggc	900
tacactgagc accaggtgtt ctccctgtac ttcaacagcg acacccactc ctccacctt	960
gacgctgggg ctggcattgc cctcaacgc cacttgtca agtcatttc ctggatgac	1020
aaacaaatgg gctacagcaa caggggtgtt gacctcatgg cccacatggc ctccaaggag	1080
taagacccct ggaccaccag ccccagcaag agcacaagag gaagagagag accctcactg	1140
ctggggagtc cttggccacac tcagttttttt accacactga atctccctc ctcacagttt	1200
ccatgttagac cccttgaaga ggggaggggc ctagggagcc gcacccatgtc atgtaccatc	1260
aataaaagtac cctgtgtca acc	1283

<210> 540
<211> 6417
<212> DNA
<213> Homo sapiens

<400> 540 gccccctccgg gtgactcggg ccagtgtaga ggtcctcagg ccgcggcag gagcagctgg	60
gccaattccc tggccggggag cggaaaggggg tggcgctcggg cctggggctcc cggccccctt	120
gctcggcggg cagtggggag gaggatatgg atgcactttt gaacaacgc ctggcccccac	180
cccacccaga aaatgaagag gaccagaag aggatttgc agaaacagag actccaaagc	240
tcaagaagaa gaaaaagctt aaaaaaccc gggaccctaa aatccctaag agcaagcgcc	300
aaaaaaaaaggc gcgtatgctc ttatgcggc agctggggga cagctctggg gagggggccag	360
agtttggaa ggaggaggaa gaggtggctc tgcgtcaga cagtggggc agcgactata	420
ctccctggcaa gaagaagaag aagaagctg gacctaagaa agagaagaag agcaaatcca	480

agcggaaagg ggaggaggag gaggatgtat atgatgtatga ttcaaaggag cctaaatcat 540
ctgctcact ccttggaaagac tggggcatgg aagacattga ccacgtgttc tcagaggagg 600
attatcgaaac cctcaccaac tacaaggcct tcagccagtt tgtcagaccc ctcattgtct 660
ccaaaaatcc caagattgtct gtctccaaga ttagatgtgtt tttgggtgca aaatggcg 720
agttcagtac caataaccccc ttcaaaggca gttctgggc atcagtggca gctgcccgg 780
cagcagcggg agctgtggtg gagagcatgg tgacagccac tgagggtgca ccaccaccc 840
ccccctgtgg agtgcctatc cgcaaggcca agaccaagga gggcaaggt cccaatgtct 900
ggagggaaagcc caagggcggc cctcggttac ctgatgcca gaagcctaaa cccaaagaaag 960
tagctccct gaaaatcaag ctgggagggtt ttgggttccaa cgtaaagaga tcctcgagt 1020
aggatgtatc ctttagatgtg gaatctgact tcgatgtatgc cagtatcaat agctattctg 1080
tttctgtatgg ttccaccatc cgtatgtgcc gcagccgcaaa gaaactccga accactaaaa 1140
agaaaaaaagaa aggccggaggag gaggtgactg ctgtggatgg ttatgagaca gaccaccagg 1200
actattgcga ggtgtgccag caaggccgtg agatcatccct gtgtgtatacc tgccccgtg 1260
cttaccacat ggtctgcctg gatcccgaca tggagaaggc tcccgagggc aagtggagct 1320
gccccacactg cgagaaggaa ggcattccagt gggaaagctaa agaggacaat tcggagggtg 1380
aggagatctt ggaagaggtt gggggagacc tgcgaagagga ggtgaccac catatggat 1440
tctgtcggtt ctgcaaggat ggtggggaaac tgctctgttg tgataacctgt ctttcttct 1500
accacatcca ctgcctgaat ccccccacttc cagagatccc caacgggtgaa tggctctgtc 1560
cccggtgtac gtgtccagct ctgaaggccaa aagtgcagaa gatcctaatac tggaaagtgg 1620
gtcagccacc atctccacaca ccagtgcctc ggcctccaga tgctgtatccc aacacgcct 1680
ccccaaagcc ctgggggggg cggccagagc ggcagtctt tggaaatgg caaggcatgt 1740
cttactggca ctgctcttgg gtttctgttac tgcagctggaa gctgtactgt caggtgtatg 1800
tccgaaacta tcaagcggaaag aatgatatgg atgagccacc ttctggggac ttgggtgggt 1860
atgaagagaa aagccgaaag cgaaaagaaaca aggaccctaa atttgcagag atggaggaaac 1920
gtctctatcg ctatggata aaaccccgagt ggtatgtatgat ccacccgaaatc ctcaccac 1980
gtgtggacaa gaagggccac gtccactact tgatcaagtg gcccggactta ctttacgtat 2040
aggcttcttg ggaggtgagatgtggaga tccaggattt ccacgttgc aagcagact 2100
atttggaaatca caggggaggta atgaggggtg aggaaggccg accaggcaag aagctcaaga 2160
aggtgaagct tcggaaagttt gagagccctc cagaaacgcc aacagttgtat ccaacagtgt 2220
atgtatggcg acagccagag tacctggatg ctacagggtt aaccctgcac ccctatcaaa 2280
ttggggccct gaatttgggtt cgcttctctt gggctcaaggaa cactgtacacc atcttggatg 2340

atgagatggg ccttgggaaa actgtacaga cagcagtctt cctgtattcc ctttacaagg	2400
agggtcattt caaaggcccc ttccatgtga gcgcggctct ttctaccatc atcaactggg	2460
agcgggagtt tgaaatgtgg gctccagaca tgtatgtcg aacctatgtg ggtgacaagg	2520
acagccgtgc catcatccga gagaatgagt tctccttta agacaatgcc attcgtggtg	2580
gcaagaaggc ctcccgatc aagaagagg catctgtgaa attccatgtg ctgctgacat	2640
cctatgaattt gatcaccattt gacatggcta ttttgggctc tattgattgg gcctgcctca	2700
tcgtggatga agcccatcg ctgaagaaca atcagtctaa gttctccgg gtattgaatg	2760
gttactact ccagcacaag ctgttgcata ctgggacacc attacaaaac aatctggaa	2820
agttgtttca tctgctcaac tttctcaccc ccgagaggtt ccacaatttg gaaggtttt	2880
tggaggagg tgcgtacattt gccaaggagg accagataaa aaaactgcat gacatgtgg	2940
ggccgcacat gttgcggcgg ctcaaagccg atgtgttcaa gaacatgcc tccaagacag	3000
aactaattgt gcgtgtggag ctgagcccta tgagaagaa atactacaag tacatctca	3060
ctcgaaattt tgaagcactc aatgcccggat gtggggcaaa ccaggtgtct ctgctgaatg	3120
tgggtatggat tcttaagaag tgctgcaacc atccataacctt cttccctgtg gctgcaatgg	3180
aagctcctaa gatgcctaat ggcatgtatg atggcagtgc cctaattcaga gcatctggga	3240
aattattgt gctgcagaaa atgctcaaga accttaaggaa ggggtggcat cgtgtactca	3300
tcttttccca gatgaccaag atgcttagacc tgcttaggaa tttcttggaa catgaagggtt	3360
ataaatacga acgcacatcgat ggtggaatca ctgggacat cggcggcaagag gccattgacc	3420
gcttcaatgc accgggtgct cagcagtttctt gcttcttgc ttccactcgat gctggggcc	3480
ttggaaatcaa tctggccact gctgacacag ttattatcta tgactctgc tggaaaccccc	3540
ataatgacat tcaggccctt agcagagatc accggattgg gcaaaataaa aaggtatga	3600
tctaccgggtt tgcgtaccgt ggtcgttgttgg aggagcgcacat cacgcagggtt gcaaaagaaga	3660
aaatgtatgc gacgcacatcta gtggcgccg ctgggctggg ctccaagact ggatcttatgt	3720
ccaaacagga gcttgcgtat atcctcaat ttggcactga ggaactattc aaggatgaag	3780
ccactgtatgg aggaggagac aacaaagagg gagaagatag cagtttatc cactacgtat	3840
ataaggccat tgaacggctg cttagaccgtt accaggatga gactgaagac acagaattgc	3900
agggcacatgaa tgaatatttg agctcattca aagtggccca gttatgtggta cgggaagaag	3960
aaatgggggaa ggaagaggag gtagaacggg aaatcattaa acaggaaagaa agtgtggatc	4020
ctgactactg ggagaaatttgc ctggccaccattatgagca gcagcaagaa gatctageccc	4080
aaaatctggg caaaggaaaa agaattccgtt aacaggtaa ctacaatgtat ggtctccagg	4140

aggaccggaa ttggcaggac gaccagtccg acaaccagtc cgattactca gtggcttcag 4200
aggaaggta tgaagacttt gatgaacgtt cagaagctcc ccgttaggcc agtcgttaagg 4260
gcctgcggaa tgataaaagat aagccattgc ctccctctgtt ggccctgtt ggtggaaata 4320
ttgaagtaact tggtttaat gctcgctcage gaaaaggcctt tcttaatgcata attatgcgtat 4380
atggtatgcc acctcaggat gctttacta cccagtggtc tgtaagagac ctgcgaggca 4440
aatcagagaa agagttcaag gcatatgtct ctctttcat cgccgattta tgtgagccgg 4500
gggcagatgg ggctgagacc tttgctgtat gttgtccccgg agaaggcctg tctcgccagc 4560
atgtccttac tagaatttgtt gttatgtctt tgattcgcaa gaaggtttag gagtttgaac 4620
atgttaatgg ggcgtggagc atgcctgaac tggctgaggt ggaggaaaac aagaagatgt 4680
cccagccagg gtcaccctcc cccaaaaactc ctacaccctc cactccaggg gacacgcgc 4740
ccaacactcc tgcacctgtc ccacctgtg aagatgggat aaaaatagag gaaaatagcc 4800
tcaaagaaga agagagcata gaaggagaaa aggaggttaa atctacagcc cctgagactg 4860
ccatttaggt tacacaggcc cctgccccctg cctcagagga tggaaaaggc ttgtttagac 4920
ccccctgaggg agaggagaaa gtggaaaagg cagaggtgaa ggagagaaca gggaaaccta 4980
tggagacaga gcccaaagggt gctgctgtat tagagaagggt ggaggaaaag tcagcaatag 5040
atctgacccc tatttgtgta gaagacaaag aagagaagaa agaagaagaa gagaaaaaaag 5100
aggtgatgct tcagaatgg a gaccccccagg a gacccctgaa tgatgagaaa cagaagaaaa 5160
atattaaaca acgtttcatg ttaacattt cagatggttt gtttacttag tttacttag 5220
tttggcagaa tgaagagccg gcacccacag ttaccaagaa gactttatgag atctggcatc 5280
gacggcatga ctactggctg ctggccgcata ttataaaccat tggctatgcc cggtggcaag 5340
acatcccgaaa tgacccacgc tatggccatcc tcaatgagcc tttcaagggtt gaaatgaacc 5400
gtggcaattt ctttagagatc aagaataaaat ttcttagctcg aagggtttaag ctcttagaac 5460
aagctctgggt gattgagggaa cagctgcgc gggctgttta cttgaacatcg tcagaagacc 5520
cttctccatccc ttccatggcc ctcacacccc gctttgtga ggtggggatgt ttggcggaaa 5580
gtcatcagca cctgtccaaag gactcaatgg cagggaaacaa gccagccaaat gcaactccgtc 5640
acaaaggatct gaaacagctg gaagaactgc tgactgacat gaaagctgat gtactgcac 5700
tcccgactac cattggccga attccccccag ttgctgtgag gttacagatcg tcagacgtta 5760
acattctcag cccgctggca aaccggccac ccgaacccat cccacagcag gtagcccgac 5820
agcagtgaag atgcagactg ataccaccc caccgtcgag cgtgacccctt ctcactttc 5880
tcttgcctca gcttctcccc ttggggccctg agagacccctc accttccttc tgcccatctt 5940
ccatgttgcata aaaaacaaaccccccactgac taaaaggaaaagggggaaatggggcaatgtaa 6000

tgcccttct	gcagaagaga	catgcagcag	tagcgctggc	gccatctgca	ggagctggcg	6060
ggctggcctt	ctggaccctg	gcttctcccc	actgtaacgc	ctgttacaca	caaactgttg	6120
tgggttcctg	ccaggcttga	agaaaatgtat	ctgaattttt	tcctcctttt	ggttttattt	6180
tgttgttta	ttttgtttt	tctttctcc	tttttggggg	gtattcagag	tgggctgggc	6240
ccctgggcga	gacacagcta	cctctgttgg	catctttta	ataccaggaa	cccagcgct	6300
ctagccactg	agcggctaaa	tgaataaaag	tggaaaaaaa	aaaaaaaa	aaaaacccaaa	6360
agcataaaaaa	accacagcaa	atttcttgat	gaaaattgaa	aataaaagtt	tccttgc	6417

<210> 541
<211> 1680
<212> DNA
<213> Homo sapiens

<400> 541	cacggcagcc	ctacactcg	cctggaaagaa	ttgttttct	tctctggaaa	ggtgaacatt	60
	atacgattt	atttccaaa	tctgttaaca	tggcaaata	tgtcagtctc	actgaagcta	120
	acgaagaact	caaggcttta	atggacgaga	accagaccag	ccgcggcgt	gccgttcaca	180
	cctccaccgt	gaacccgctc	gggaaggcgc	tcttgcggaa	aaccttgg	cagtcagg	240
	tcaacattga	ccagcaagt	gtaattggta	tgcctcagag	accagcagca	tcaaacatcc	300
	ctgtggtagg	aagccaaac	ccaccggc	ctcaacttgc	ctctcagaac	cagcatcc	360
	actcctacc	tccttggcc	gggcagcaca	acagggaaagg	agagaagaat	ggcatggcc	420
	tgtgcgtct	ttccatgaag	gtctgggaga	cggtcagag	gaaagggacc	acttcetgc	480
	aggaagtgtt	gggcgagctg	gtcgccaagt	tcagactgc	cagcaaccac	gcctcaccaa	540
	acgagtcagc	ttatgacgt	aaaaacataa	aacggcgcac	ctacgatgc	ttaaacgtgc	600
	tgtggccat	aatatcatc	tccaggaga	aaaagaagat	caagtggatt	ggtctgacca	660
	ccaaactcggc	tcagaactgt	cagaactac	gggtggaaag	acagaagaga	cttggaaagaa	720
	taaagcagaa	acagtctgaa	cttcaacaac	ttattctaca	gcaaattgt	ttcaagaacc	780
	tggtgctgag	aaaccagtat	gtggaggagc	aggtcagcca	cgccggcgt	cccaactcag	840
	tcatccacgt	gcccttcatc	atcatcagca	gtagcaagaa	gaccgtcatc	aactgcagca	900
	tctccgacga	caaattcagaa	tatctgttta	agtttaacag	tccttgcggaa	atccacgtat	960
	acacagaagt	gctgtatgtt	atgggcatga	cttttgggc	agagtccggg	agctgtctg	1020
	ccgaagacct	taaaatggcc	agaaattgg	tcccaaaggc	tctggagccg	tacgtgacag	1080
	aaatggctca	gggaactttt	ggaggtgtt	tcacgacggc	aggttccagg	tctaattggca	1140
	cgtggcttc	tgccagtgac	ctgaccaaca	tttgcattgg	gatgtccggc	acaagctccg	1200

gtggatctca gtacagtggc tccagggtgg agaccccagc agtcgaggag gaagaggagg 1260
 aggacaacaa cgatgacgac ctcagtgaga atgacgagga tgactgacgt cctctcgct 1320
 taagattcag cttcaggaaa acatttaggg aaaagaaaact tttttttttt ttttaatgtg 1380
 aggtttctg tttttttttt gcctactccc aagaagatat tggtaagcta tagaatttag 1440
 atatgcacct ctgataagca aggattgtt cccgtatgat taagacgtc tggatgtg 1500
 tggatgttata ccagtgtgct gacacagaat ctttattac ttttttagat tttgtgtttt 1560
 cattttctat ttttctttaa atgcagatg cattgttgcc ccttaacagt ttttcttgc 1620
 tttactgaag aaattgtact tcatccacat ccatgaaaat aaaatgtct cttttgtgc 1680

<210> 542
 <211> 2055
 <212> DNA
 <213> Homo sapiens

<400> 542
 agcactcaaa aagagtgaat gaaaatgtgca gctcagagtg tcatttctga agggaggagt 60
 ctttcttgc gagaagatc ctcaatggc ctggccgagg cccggatct gtgtgaagtg 120
 gactaaggat taagtaggat gtcaactgag acagaacttc aagtagctgt gaaaaccagc 180
 gccaagaaaag actccagaaa gaaaggtcag gatcgactgt aagccactt gataaaggagg 240
 tttaaagggt aagggttccg gtacaaagcc aaattgtatcg ggattgtatcg agtttccgca 300
 gctcgggagg acaagttatg tcaagattcc atgatgaaac tcaagggcgt tggatgttgc 360
 gctcggttcca aaggagaaca caaacagaaa atctttttaa ccatctccctt tggaggaatc 420
 aaaaatcttgc atgagaagac agggggccctt cagcatcattc atgctgttca tggatgttgc 480
 tacattgcaa aggacattac agatcacccgg gcctttggat atggtttgttgg gaaggaagg 540
 aatcacagat ttgtggccat aaaaacagcc cagggggctg aacctgttat tctggacttg 600
 agagatctct ttcaactcat ttatgtatgg aagcaaaagag aagaatttgc aaaaaggca 660
 caaaaggata agcagtgtga acaagctgtg taccagacaa tattgttgc ggtatgttgc 720
 gatccctgtgtt accagttatcg ttttttttttgc gctggacacg agccaatccg tggatccggaa 780
 acggaaagaaa acatggatcg gttccacc agccaaaaga aggaagggtt ttatgtatgt 840
 cccaaaaatgc aacctgtgtt gacccatta gaaacttttgc gggacatgtc cacacccctt 900
 gatataacctt cttccccccac tcttgcactt ccaggtgtatc cttttatccc atcttcatct 960
 cagacccttc cagcgactgc agatgtgtttt agtttgcgttac ctttgcgttgc tggatgttgc 1020
 cccttgcgtt acgttgcattt gggcgctgtc cttccgttgc tctgggttgc gcaagccctt 1080
 gtccaaacagc agatgttgcattt gggcgccat caccatgtc ctcaggtgtatc gccgggggtt 1140

cagcccateg	catggggcca	gccgggtctc	tttcctgcca	ctcagcagcc	ctggccaact	1200
gtggccgggc	agtttccgccc	agccgccttc	atgcccacac	aaactgttat	gccttgcca	1260
gctgccccatgt	tccaagggtcc	cctcacccccc	cttgccacccg	tcccaggcac	gagtgactcc	1320
accaggtaaa	gtccacacac	cgacaagccc	aggcagaaaa	tggcaaaga	aacgtttaag	1380
gatttccaga	tggcccagecc	tcggcccggt	ccctcccgca	aacccgacca	gccctccctc	1440
acctgtacct	cagaggcctt	ctccaggat	ttaacaaag	tcgggggtggc	acaggataca	1500
gacgactgtg	atgactttga	catctccca	ttgaatttga	ccctgtgac	ttctaccaca	1560
ccatcgacca	actcacctcc	aaccccagecc	cctagacaga	gctctccatc	caaatcatct	1620
gcatccccatg	ccagtgatcc	taccacagat	gacatctttg	aagagggttt	tgaaagtccc	1680
agcaaaaacgq	aagagaaga	agctcctgtat	ggatcacagg	cctcatccaa	cagtgtatcca	1740
tttggtgagc	ccagtgggga	gcccagtgtt	gataatataa	gtccacaggc	cggtagctag	1800
atagcgcagg	tctggggagcc	agagcctctg	tacgcgcaga	tcaacagacc	taagaaatag	1860
catcgatcg	agctcgtgtt	gggtgctcaa	gactggcatg	gacatcagca	tcacgacagg	1920
ctctcttgc	ttctttcacc	tcttccaca	agaaattcat	gattgcccua	tggaactcgc	1980
tcagaagagg	gaactaaagca	ttttggcaa	ccaatggcag	atatatgg	cagcacacaa	2040
aaaaaaaaaa	aaaaaa					2055

<210> 543
<211> 4239
<212> DNA
<213> Homo sapiens

<400> 543	ctgtggccct	gggagctgcc	tctgagaaac	acgcccgcagg	gccaggcatg	tgaggctctc	60
gccccgtcatg	gagaacctcc	ctgcccgtac	cactgaggag	ccgaccccca	tggggagggg		120
tccctgtggg	ccctcaggag	gtggcagcac	ccgggaccag	gtccggactg	tggcatgag		180
gccccctgtg	agctgggaga	aagcggggcc	cgaggaggcc	aaggcgcgg	tgagaggcga		240
cgaggctcc	cctgcccgcg	ttggctggcc	tgctgtgtgg	accctccct	gccagatgg		300
ggtttatccc	acagacctga	ccctcgacgt	gctggctgt	cgaggaaaga	gcagactcg		360
ggacccggc	ctacagcaga	ccctccgggg	ccagctccgc	ctgctggaga	atgatagccg		420
ggagatggcc	cgcgtgttt	gggaattatc	agccaggctg	ctgtccatcc	acagtgcacca		480
ggacccggatc	gtgggtacgt	ttaagacttt	tgaagaaatc	tggaaagttt	ccacctacca		540
tgctctcgcc	ttcactctatc	actgcctggc	aaacctgtct	atggaccagg	ccttctggct		600
gctcttgc	agtgaggagg	aggagacggc	catccaaatc	catgtggat	agaacgcctt		660

aaggctgacc cacgagagcc tcctcatcca agaagggccc ttctttgtcc tggatcgatgc	720
ccaccatgtg agatgtatcg cgggtccccg ggatgcaggaa aatggccccc aggccctca	780
gcaggcttcg ggggcacccc agggagaggc ggccccggaa acagacttcc caccggcag	840
ccccagctgtc tcctccgagg aggtggcagt ggccggccgc ccggagctt tgattccatt	900
tcatcagtgg gctttagga tcccccaagg ccccatcgac gatgccatgg gtggccctgt	960
gatgcccggc aaccgcgtga tggctgtggg cctggcctcg gcattggcag acttccagg	1020
ctcgccggcc gaagagatga cttccgagg tggcgcaccc atcgagatcc ttggggcga	1080
ggtgcccaagg ctgcgcgttgc gctgtggccg acacgcgc tccggccggg tgggtttgt	1140
gcggagcaggc ctcatcagca tgcaggccc cgtgtccggag tggaaaagtgcgatccat	1200
caatgaggaa gaaaagtcat tcttcagcga gggctgtttt tctgaggagg atgcaggca	1260
gttgctgagg cggatgtcg gcaccgtatgt ctgcgcgttgc tacagcctgg actcagtaga	1320
ggaagctgag accgagcaggc cgccaggaaaa agaaataacctt ccacccgttgc tgagccgg	1380
gccccccaggac accttgcaga aggtgaagaa tggctgtggaa caatgcaga cctggccagg	1440
ctgccccccaggac accttgcaga aggtgaagaa tggctgtggaa caatgcaga cctggccagg	1500
ggaccccgag gagcccttgc tctgtttggaa agccgaggac gactggagg acccagaggc	1560
cctgagatca ctgtgtgttgc tcttcgcaccc cctgggttgc aaggccatgt tccgtggct	1620
gtacgtgtg ggcgttgcgtt ggctgtggcag cgtgtttccgc agcttcagcg acgaggagg	1680
gctgacttggg cgccttgcac agggccgggg ggccggcaag aaagctggcc tccatcgcc	1740
cctggccaggac accttgcaga aggtgaagaa tggctgtggaa caatgcaga cctggccagg	1800
ggcccccgggtg tacttttgggg aagcgttggg ggccctggag ggcagcttgc gggacctgtt	1860
cctgggtgttgc gctgtgtacg ccaaccttgc cagcattac cggaaaggcaga agaaccggg	1920
gaagtgtgc cagggtgtgc ccaaaggccat ggcccttgc tggggacgc cggaccacat	1980
ctgcagccacc gaggccggagg gggagcttgc tggccggccgc ctggccgggg cgggtgggtgg	2040
ccagagccctg caggccggagg cccggccctg cttctgtgc gccaggccacc acgtgcaccc	2100
caagcagccc gaggaggccc tggcccttgc tggccggccgc tggccggccgc acaggactc	2160
gggagcccca gaggccggcgt ggcttcaga ctgttgc tggccggccgc acatctacag	2220
ccgcaagtgc ctgcggccacc tgggtgttgc tggccggccgc tggccggccgc acatctacag	2280
gggctgtgtc gccggccgtc tgggggtgttgc tggccggccgc tggccggccgc acatctacag	2340
ccacagccctc cctggccaaa cttccacta cctcaggca ggcgtggccgc tggccggccgc	2400
ggccacaggc caggccgtgc gggccccccttgc tggccggccgc tggccggccgc acatctacag	2460

ccatggctgc cacggccccg	ccatcacctt catgacgcag	gcagtggaaag ccagtgttat	2520
tgcggaggtc cgtgccatcg	tggaccacct ggtggccctg	gcctggctgc acgtgtttca	2580
tggcagagc ccggtgcccc	tggacatct gcagtctgtc	cgggatgcag tggtgccag	2640
cgaggaccag gagggcgtga	ttgccaacat ggtggccgtg	gctctgaaga ggacgggccc	2700
gacgaggcag gcagctgaga	gctactaccg cggccatcg	gtggctcgaa acctgggcca	2760
gcaaaggAAC caggcgtgg	ggctggccaa ctteggggcc	ctgtgcctgc atgcgggtgc	2820
cagcaggctg gcccagcact	accccttggg	ggccgtgcgg ctgttctcga	2880
tggggagtgt ggccggact	tcacccacgt gctctgtcag	ctggggccatc tctgcacccg	2940
ccaggggccg gcccagcagg	gcaagggtcta ctacgagtgg	gcccctctgg tcggccgtgg	3000
gtggggccac gtggagagcc	agctgcccc	cgtccagcgg ctgtgcact tctacagcgc	3060
cgtcatgcc agcgaggccc	agtgtgtcat	ctaccatgag ctccagctt ccccgccctg	3120
caagggtggc gacaagggtgc	tggagggca	gctcctggag accatcagcc agctctac	3180
gtccctggc accgagcggg	cctacaaatc	cgcactggac tacaccaaac gaagtctggg	3240
gattttattt gacctccaga	agaaaagaaaa	ggaggcgcata gcttggctgc aagcaggaa	3300
gatctattac atcttgcggc	agagcgagct	ggtggacctc tacatccagg tggcacagaa	3360
cgtggccctg tacacaggcg	accccaacct	ggggctggag ctgtttgagg cggctggaga	3420
catcttctt gacggggcc	gggaggggaa	gaaagctgtc ttcttctacc gggaccggcc	3480
cctgcccctg gcagtgtacta	cggcaaccg	caaggcggag ctgcggctgt gcaacaagct	3540
ggtggactg ctggccacgc	tggaggagcc	ccaggaggcc ttggagttt cccacatggc	3600
ccttagactc agcatcaccc	tggggacccg	gctgaacgc cgccgtggctt accaccggct	3660
ggccgcctg caacaccgc	tggccatgg	cgagctggca gagcactt acctcaaggc	3720
cctgttgtc tgcaactcgc	cgctggagtt	tgacgaggag acccttact acgtgaaggt	3780
gtacctggta ctgggtaca	tcatcttcta	cgacactgaag gaccctttg atgcaggccg	3840
gtactaccag ctggcgctgg	cgccgcctgt	ggacctggcc aacaagaagg cacagctgaa	3900
gatctacacg cggctggcca	ccatctacca	caacttctc ctggaccgtg agaagtgcgt	3960
cttcttctac cagaaggcca	ggaccttgc	cacagagctc aacgtccgc gggtaacact	4020
gcctctctg ccactctgcg	ggtggggccc	ctggttggcc cccagccacc ctcgctgagg	4080
acagcatcca agggagttggg	ttttgtcaca	gggctggggg ttcctgcctt ctctgggtgt	4140
cgccggggc tcatcttctg	gcaaatggag	gcacgaacgc agggccaaa tagcaataaa	4200
tgggttttgt ttttttttg	caataaaaaa	aaaaaaaaa	4239

<210> 544
<211> 2207
<212> DNA
<213> Homo sapiens

<400> 544	
atatttcttc tatgaatctt ttgtgtacag atttttgtgt agacatataat gtttttatct	60
ctgttggtgt tataacctgag agtagaatta ctgggttata tggttaactct atgttttagcc	120
ttttgaggaa ctgcttagact gtttcccaa ggagctgtat cattttacat aaccaccaga	180
tatgttttag ggttctgatt tctccacagt ctcatgataa cttattattt tctgccatt	240
ttattttagc cagtcaagg ggttggaaat ggtacctcat tatggttca gtttgtgtt	300
ttctaatacgag taatgtatgtt gagtataattt ttatattttc tggtgttattt aaccatttt	360
atatacatctt tggagaaatg tctgttcata tcctttgtctt atttttaaa gattggatta	420
tttgcattttcatttattgaa ttgtaaagttt tctttatataa gtcttagctat aagtcatata	480
tatataatgtat ttgcacaaat ttttttccat tctataggtt gtttcactt tcatgtatgtt	540
gagaaccccttggatccatgtc tggcttagcc atcaaaaaggc tccccatttt acactttgtt gattcctt	600
ggaccctactt ttctccaaag aacccttatttcccccaattt atccttcagg ttctcttagca	660
tcaaaacaaa attcgcttccat ttttttttttgc ttttttttttgc aactgcacca ttttgcattt	720
ccccccatgttgc ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	780
tttgcacccatgttgc ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	840
gaaacatcccttgc ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	900
aaccaaaaggcccaactgttgc ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	960
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1020
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1080
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1140
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1200
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1260
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1320
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1380
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1440
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1500
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1560
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1620
tttttttttgc aactgcacca ttttttttttgc aactgcacca ttttttttttgc aactgcacca ttttgcattt	1680

cataagataa cagacaaaat	gggttagggg aacaatcaga	tttgcattta tgcgttgtgg	1740
gccagggtta actgcacctg	taagctgtca attgacattt	ccatgtgaa attttagctc	1800
actggaaatt tccctgtggg	caaatacag gggaggtgt	tagctttca tcttgtagcc	1860
atcttatTTA gaaacaaaaa	ggggggagac aggtttgcat	gaccaggatc ccagcttgc	1920
ttcttcctt tggctaaatcg	agtttgggt cccaaaattt	aatttcctt cacatttccc	1980
ttctttttc tgtaaaatct	tttggagaaa gcattttaaa	aggaagacga gttcctggcc	2040
tcaggttggt tttccccc	tttttgagc tgcttttta	ttgcttaggat ggtttattcc	2100
tagaagttca ggtccccagt	ctcttaggaag gtcatttct	aagaggtcat gtcccatgaa	2160
ggtaaaaaaa aaaaaatagg	aagaggaaag aagtaaaaaa	ggaaagg	2207

<210> 545
<211> 467
<212> DNA
<213> Homo sapiens

<400> 545	cgcccgaga gtcaccgc caccaggcga	cccccacca gagagggaca	gacatgcggg	60
gagccagcac cggcaagat ggctctgggg	atcctcatc tgtgaagaca	ccaactcatt		120
tctcaaacac aggatccagg agacagatgg	ctcctaaatg gagatggcac	atgtccgtg		180
gggtccctca tagaggagtg ccaccctcca	caactggccac gctggctgc	cccagagegg		240
ccagaaagga aggtgggagc tagccccatc	ctcaactcaga ggccgaaagg	aggaagatgg		300
catctcgcca acttcagagc cgaatggct	ctagccacac tgcttccaga	ccccagacgg		360
ggcagcagca gcagttccca gatgagcacc	cattgttgca gctaggaccc	accaaggatg		420
ggactctgg agtcagggtc acaccaggta	acccaggacc acgcctc			467

<210> 546
<211> 459
<212> DNA
<213> Homo sapiens

<400> 546	gtcatgaact attttaaca ttccgaaag ctcctggaa	attattatgc agccagccac		60
aacagggctg caacaaaatg ccagtatctt cgctttctc	tggagtccca tca	gctcagt		120
ggcgctcacac tgatcaaagg cactgctgg	cagtcatcta tgtagtgtat	gagtaaaggta		180
gacagggaaat tcattgtgc ttgataaatg	tccttccaa gtcacccat	cttggaaac		240
acaccaccta ttatcccagt tgcccaagtc	aatgcagga gtcacccctg	gttcttctt		300
ttctgtcaact ctgtcccc	aaccccaatc cagctcatca	gcaagtcccc		360

atggcacagg ggctccaccaa ttatgttgc actgaatgac ctccatctga taagtgaact	420
tgaatgtgcc cagaaaataa gaaaataacg aaaagcctg	459
<210> 547	
<211> 428	
<212> DNA	
<213> Homo sapiens	
<400> 547	
atgtctcttg tcagctgtct ttcagaagac ctgggtgggc aagtccgtgg gcatcatgtt	60
gaccgagctg gagaaaagct tgaactctat catcgacgtc taccacaagt actccctgtat	120
aaagggaaat ttccatgcgg tctacaggga tgacctgaag aaattgttag agaccgagtg	180
tcctcgttat atcaggaaaa agggtgcaga cgtctggttc aaagagttgg atatcaacac	240
tgtatgtgcg gttaaactcc aggagttctt cattctgttg ataaagatgg gcgtggcage	300
ccacaaaaaaaaa agccatgaag aaagccacaa agagtagctg agttactgg cccagaggct	360
gggccccctgg acatgtacct gcagaataat aaagtcatca atacctaaaa aaaaaaaaaaa	420
aaaaaaaaa	428
<210> 548	
<211> 1131	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (33)..(33)	
<223> n is a, c, g, t or u	
<220>	
<221> misc_feature	
<222> (624)..(624)	
<223> n is a, c, g, t or u	
<220>	
<221> misc_feature	
<222> (848)..(848)	
<223> n is a, c, g, t or u	
<400> 548	
ttccgaatat cgtcgaccac gcgtccgtag aanataaaac tgctatgaga tagaaatgtat	60
gtaaaattat gtggaaagtt ttcccata tactcacata cagcctttga agggctctgg	120
ctctgacegg ttgtatggct tgagcgagat gaaatcatga aattgagtca aatcaatttg	180
acatgtaaat gacaagagga aactcttaaa tacataaaaa caagctctca tttgcctttagg	240
atagatactg tctaaaaat aaagactgaa cctagatgtt ctgagcacta gcaacaaggt	300
attttaacaa gtttaaagga attctctgaa aaagtataa aattattcta ggaacataa	360

ccataatagt	gtttaaggg	actttcacct	ggggattta	tattcatgaa	cagagtgtat	420
tctgtattta	aatgtctca	tttgtggaa	ttggatgaca	tgtttttga	taaatttatt	480
acaatataa	attgacttt	tattcttagga	ccatgtgaat	aatgggttcc	attgcacaaa	540
tacaatatt	ttaatagctt	cttaggcaqt	ggtgttagaca	tcttgatata	aaataattgt	600
agatcttgt	tatttgattt	ttanaaaact	agaataaaca	gagaggcata	aacatatctt	660
agagtccaag	ttggtagtgtt	tagcatggaa	tataataat	ggatgtttta	caaagtgttt	720
ccataattct	cttcatac	ataaatgtct	tgttttcaaa	agtggatgga	acttggctgg	780
gtgtggtggc	tcacgcctgt	aatcctagca	ctttgggaag	ccaggccggg	aggatcactt	840
gagctcanga	gttgagaca	tcctgggcca	catagtgaga	cctggctcc	tgaaaaaaaaa	900
aagtggatgg	gacttgtacc	agagattta	tctacttctc	caactgcttc	agaataacca	960
ttgagatgtt	ccccctggaa	agatgacccc	atactgcctc	ttgagccatt	tcttcccacc	1020
taacattctt	aatgataaa	ggcccaactt	ttggcattct	tcccaatttc	gggaacctga	1080
gtttgagggg	gttccaaatt	tggggaaaaa	aatggggttt	aagggttaac	t	1131

<210> 549
<211> 3854
<212> DNA
<213> Homo sapiens

<400> 549	gccagagtct	ctccgcttta	atgcgcctcc	attagtgcgcg	tccccactg	gaaaaccgtg	60
gcttctgtat	tatttgccat	ctttgtgtg	taggacgagg	gagggttcc	tcccggttc	120	
ctaggcggcg	gtgcagtccg	tcgtagaaga	attagagttag	aagttgtcg	ggtccgcct	180	
taggacgcag	ccgcctcatg	ggggtccagg	ggctctggaa	gctgctggag	tgctccggc	240	
ggcaggtcag	ccccgaagcg	ctggaaggga	agatcctggc	tgttgcattt	agcatttgg	300	
taaacaaggc	acttaaagg	gtccggatc	gccatggaa	ctcaatagaa	aatcctcata	360	
ttctcaattt	gttcatcg	ctctgcaaac	tcttattttt	tcgaattcg	cctatttttg	420	
tgttgcattt	ggatgcctca	ctattgaaga	aacagacttt	ggtgaagaga	aggcagagaa	480	
aggacttagc	gtccagtgac	tccaggaaaa	cgacagagaa	gcttctgaaa	acattttgt	540	
aaagacaaggc	catcaaaact	gccttcagaa	gcaaaagaga	tgaagcacta	cccagtctta	600	
cccaagttcg	aagagaaaac	gacctctatg	ttttgcctcc	tttacaagag	gaagaaaaac	660	
acagttcaga	agaggaagat	aaaaaagaat	ggcaagaaag	aatgaatcaa	aaacaaggcat	720	
tacaggaaga	gttcttcat	aatcctcaag	cgatagatat	tgagtctgag	gacttcagca	780	
gcctgcccc	tgaagtaaag	catgaatct	tgactgatata	gaaagagttc	accaagcgca	840	

gaagaacatt	atttgaagca	atgccagagg	agtctgtatga	ctttcacag	taccaactca	900
aaggcttgt	taaaaagaac	tatctgaacc	agcatataga	acatgtccaa	aaggaaatga	960
atcagcaaca	ttcaggacac	atccgaaggc	agtatgaaga	tgaagggggc	tttctgaagg	1020
aggttagagtc	aaggagagt	gtctctgaag	acacttcaca	ttacatctt	ataaaaggta	1080
ttcaagctaa	gacagttgca	gaagtggatt	cagagtctct	tccttcttcc	agcaaaatgc	1140
acggcatgtc	tttgacgtg	aagtcatctc	catgtgaaaa	actgaagaca	gagaaagagc	1200
ctgatgtac	ccctccttct	ccaagaactt	tactagctat	gcaagctgcc	ctgctgggaa	1260
gtagctcaga	agaggagctg	gagagtgaaa	atcgaaggca	ggcccggtgg	aggaacgcac	1320
ctgctgtgt	agacgaaggc	tccatatc	cccgactct	ttcagccatt	aagagagctc	1380
ttgacgatga	cgaagatgt	aaagtgtgt	ctggggatga	tgtcagacg	ggagggccag	1440
gagcagaaga	aatgcgtata	aacagctcca	ccgagaacag	tgtgaagga	cttaaagtga	1500
gagatggaaa	aggaataccg	tttactgcaa	cacttgcgtc	atctagtgt	aactctgcag	1560
aggagcacgt	agccagca	aatgagggg	gagagccac	agactcagg	ccaaaagaac	1620
aatatgtact	tgttcacgt	gggactgaag	ccttcccgat	aagtgtatg	tctatgatta	1680
aggacagaaa	agatcggt	cctctggaga	gtgcagtgg	tagacatagt	gacgcac	1740
ggctcccgaa	tggaaaggaa	ctgacaccgg	catctccaa	ttgtacaaat	tctgtgtcaa	1800
agaatgaaac	acatgtctaa	gtgcttgagc	agcagaacga	actttgccc	tatgagagta	1860
aattcgattc	ttctcttctt	tcaagtgtat	atgaaacaaa	atgttaaac	aattctgttt	1920
ctgaagtcat	tggccctgtc	agtttgcaag	aaacaagtag	catagtaatg	gtcccttcag	1980
aggcagtaga	taatgtggaa	aatgtgggt	catttaatgc	taaagagcat	gagaattttc	2040
tggaaaccat	ccaagaacag	cagaccactg	aatctgcagg	ccaggattta	attccat	2100
caaaggccgt	ggaaccaatg	gaaattgact	cggagaag	tgaatctgt	ggaagttca	2160
ttgaagtgc	aagtgtgtt	agtgtatgagg	aacttcaagc	agaattccct	gaaacttcca	2220
aacctccctc	agaacaaggc	gaagaggaac	tggtaggaac	tagggaggga	gaagccctg	2280
ctgagtcgc	gagccctctg	agggacaact	ctgagaggg	cgacgtggat	ggtgagccac	2340
aggaagctga	gaaagatgc	gaagatccg	tccatgtat	gcaagatatt	aatttgagg	2400
agttggaaac	tctggagagc	aacctcttag	cacagcagaa	ttcactgaaa	gctcaaaaac	2460
agcagcaaga	acggatcgct	gtctactgtca	ccggacagat	gttccctggaa	agccaggaac	2520
tcctgcgcct	gttcggcatt	cccttacatcc	aggctcccat	ggaagcagag	gcccactgtcg	2580
ccatccctgga	cctgactgtat	cagacttccg	gaaccatcac	tgtgacatgt	gatatctggc	2640

tgtttggagc	gcggcatgtc	tatagaaact	ttttaataa	aaacaagttt	gtagaatatt	2700
atcaaatgt	ggactttcac	aatcaattgg	gattggaccg	gaataagttt	ataaattttgg	2760
cttatttgct	tggaagtgtat	tataccgaag	gaataccaac	tgtgggttg	gtaccgcac	2820
tgaaaattct	caatgaatttc	cctgggcacat	gccttggaaacc	tctcttaaaa	ttctcagaat	2880
ggtgtggcatga	agctcaaaaa	aatccaaaga	taagacctaa	tcctcatgac	accaaaagtga	2940
aaaaaaaaatt	acggacatttgc	caactcaccc	ctggctttcc	taaccaggat	gttggccagg	3000
cctacctaacc	caccgtggtg	gatgactcga	agggatcctt	tctgtggggg	aaacctgatc	3060
tcgacaaaat	tagagaatttt	tgtcagcggt	atttcggctg	gaacagaacg	aagacagatg	3120
aatctctgtt	tcctgtatttta	aagcaactcg	atgcccagca	gacacagctc	cgaatttgatt	3180
cctcttttag	attagcacaa	caggagaaaag	aagatgctaa	acgttattaag	agccagagac	3240
taaacagagc	tgtgacatgt	atgctaagga	aagagaaaaga	agcagcagcc	agcggaaatag	3300
aagcagtttc	tggtggccatg	gagaaaaaat	ttgactact	tgataaggca	aaacggaaaa	3360
cccagaagag	aggcataaca	aataccttag	aagagtcatc	aagcctgaaa	agaaagaggc	3420
tttcagatttca	taaacgaaag	aatacatgcg	gtggattttt	ggggggagacc	tcctcttcag	3480
aatcatctga	tggtacttca	agtgaacatg	ctgaaaggttc	atctttaatg	aatgtacaaa	3540
ggagaacagc	tgccgaaagag	ccaaaaacca	gtgcttcaga	ttcgccagaac	tcaagtgaagg	3600
aagctcccggt	gaagaatgg	ggtgcgacca	ccagcagctc	tagtatagt	gtgacgatgt	3660
gaggggaaaga	gaagatggc	ctcgacccg	ccagatctgt	gtttggggaa	aaaagaaggg	3720
aactaagacg	tgccgagggg	agaaaaaggaa	aaacctaattt	aaaaaatatg	tatcccttat	3780
atttagttat	gacagccatt	tgtaatgaat	ttgtcgcaaa	gacgtataaa	aattaactgg	3840
ggcacggtc	aaaa					3854

<210> 550
<211> 344
<212> DNA
<213> *Homo sapiens*

```
<400> 550
cctttccggc ggtgacgacc tacgcacacg agaacatgcc tctcgcaaag gatctcccttc 60
atcccctctcc agaaggaggag aagaggaaac acaagaagaa acgcgcgttg cagagccccca 120
atccctactt catggatgtg aaatgcccag gatgtataa aatcacccacg gtcttttagcc 180
atgcacaaac ggttagtttg tggttgtggct gtcactgt cctctgcccag cctacaggag 240
gaaaagcaag gtttacagaa ggatgttctt tcaggaggaa gcagcactaa aagcactctg 300
agtcaagatg agtgggaaac catctcaata aacacatttt ggat 344
```

<210> 551
 <211> 2692
 <212> DNA
 <213> Homo sapiens

<400> 551		
acatggatgg	gtgaaaaaaaaa gagctgcccc gcttgcaga gccggaggag gacgaggatt	60
gttacatcct	taatgttcag tcaagcagtg atgacaccag tgggtttct gtggccagaa	120
gagctccgaa	gagacaggcg agttgcattt ttaatgtcca gtcaaggagt ggtgacacca	180
gtgggttttc	tgtggccaga agagctccga agagacaggc gagctccgtg gtatgttgc	240
actctgattc	tgtatgaggaa tgtcacaccc atgaagagaa gaaagctaag ttattggaaa	300
taaacagcga	cgtatgagat ccggagtgtt gtcatgtgaa gcctgccatc caggaacacct	360
caatagttat	tagtgtatgat gacaatgcg atgacaacagg taatgttgc gaaagttccc	420
acgacaacag	tgtatgattca gaagctcccg acgacaacag tgatgattcg gaagctcccg	480
acgacaacag	tgtatgattcg gaagctcccg acgacaacag tgatgattcg gaagctcccg	540
acgacaatag	tgtatgattcg gatgttcccg acgacaacag tgatgattca tccgacgaca	600
acagtgtatg	ttcatccgac gacaacagtg atgattcgga tgttcccgac gacaagagtg	660
atgattcgga	tgttcccgac gacagcgtg atgattcgga tgttcccgac gacagcgtg	720
atgattcgga	agctcccgac gacagcgtg atgattcgga agctcccgac gacagcgtg	780
atgattcgga	agctcccgac gacagcgtg atgattcgga agctcccgac gacagcgtg	840
atgattcgga	agctcccgac gacagcgtg atgattcgga agctcccgac gacagcgtg	900
atgattcgga	agctcccgac gacaagagtg atgattcgga tgttcccgaa gacaagagtg	960
atgattcgga	tgttcccgat gacaatagtg atgatttggaa agttcctgtg ccagcagaag	1020
atttgttata	tgaaggccaa attgttccatg atgaagaaga gctgggttag gctgctgt	1080
ctgtctccca	gcatgattca tctgtatgatg ctggtagca ggatcttggat gagaatctca	1140
gcaaaccacc	aagtgtatc gaggcttaacc ctgaagtttc agagagaaag ctgccaactg	1200
aggaagagcc	tgcacactgtg gtggaaaaat cagggaaaag gaagtcaaaa accaaaacta	1260
ttgtgggcc	accgaggaaa aggcagacaa agacaaaaaa tatagtggag ccaccaagga	1320
aaaggcagac	aaagacaaaa aatatagtgg agccactgag gaagaggaag gcgaaaaacca	1380
aaaatgtatc	tgtgacaccc ggacataaga agcgtgggcc ttcaaagaag aaacccggtg	1440
cagaaaaagt	tggaaaaacgc aagacttagga ctcctaaatg caaatgttccct ggatgtttct	1500
tgcaagacct	tggaaaaatc aagaaaatact ctggaaaaaa tttaaagcga aataaggatg	1560
aatttgttca	gagaatctac gacctgttta acagatccgt ctgtataaa aagctgcccag	1620

agaaactacg cataggctgg aataacaaga tggtgaaaac tgctggctta tcgcacactg 1680
gtgagatgtg gtacccaaag tggcggcgct ttgccaagat ccagattggc ttgaaagtct 1740
gcaactctgc agaccgaatc cgggataacct tgatccatga aatgtgcccatt gtcgcctct 1800
ggctgattga tggatccat gattctcatg gtgacgcattt gaagttttt gcccaggaaat 1860
ccaacaggat acacccggag ctgcccaggg tcacccgttg ccataactat aagattaact 1920
acaagggtcca ttatgaatgt actggatgc aaacgaggat tggctgtac accaaatcg 1980
tggacaccag cgcgttcattc tggccaaat gcaagggttc tctggctatg tgccattaa 2040
ctcagaaaga tgggaccctgt atttgtcccc acgtgtgacc atttgctgtg tatgtgcaga 2100
agtattatag aaaaattatg caggagatgg cttaggattag ctttggggat gtgtgaaaa 2160
cacttggcag gaattacaag gcaatgaaga attcttaagg ttatctttaga gtatattaaat 2220
gtgagctata tcctttactg gtaagaagt ttagaaaaagt ttgtttgtg aagttaggaa 2280
tattagaatt taggtactgt taagtaagta atgtttagaat ttaagatca tgtttataac 2340
gatgattgac cttaaatagg gactctattt ctaaccatcc tgcccttg acagggtatt 2400
tctgaagccc ttgggatcta ctttgggtct tacttgaggat ccataaaaaat cacaatgtaga 2460
acaaaatgca aaagaaaaagt gagtttcaa gagttggcagg ttgagagagg agaatgtgg 2520
aaagaggaca agtttgagag gcaacactta aacacttaggg ctactgtggc atctatgttag 2580
acaggaaaga caaacgtgtt tcataaaattt cgttgtgtat ggtattgtt gaaactatct 2640
gagccatgtatcaaaaaat aaaagtttc tgcatcaaaa aaaaaaaaaaa aa 2692

<210> 552
<211> 390
<212> DNA
<213> *Homo sapiens*

```
<400> 552
ttttttttt tttttttttt tttttttttt ttccctttac aaaatataaa ttattatga   60
aaacctggaa ggataatcca aggaaggtaa aaaaagaaaa aaggagggcc aaaaaaaaaag 120
gcaggaagga gagaaaaaga aaaaaagaca aagaggagat gagaaaaaa atcccgatc 180
agcacaacaa aagtgcaaaa gtcacactac ccaaattggca tttaaggctc gtgtgtat 240
cgtgtcagaa aacaaagcat actgacacat agggctttac ttcccatcca cttgagttt 300
aagaggtaaa ttaaaaagct ctttgggaag gggacatgag gttgttcaa aacccaacaa 360
agaaaaattaa aaaaaaaaaa gagagagaaaa 390
```

<210> 553
<211> 4314
<212> DNA

<213> Homo sapiens

<400> 553

gaacagattc atgggtgatt tagcctatct gtcccaggcc agcgtaggcgt agtgtgtgg	60
ctggaggcct ctctctctgc ttcgagggta gctgagatcc accccggaaa cggcaggat	120
gaagggggca agtgaggaga agctggcatc tggccaac ctggtaactg tggggagaa	180
tagcaggtat gggcagctgg ggtgggggg tcaccatgtt gggctggcag ccaccctcca	240
gcctttctgg cagctctctc cctggccct gcacggacc ctctctctgc agggcagcc	300
ccgcgttctt cggtcacgga ttccctggag catggagag tgctggggg acaccaggag	360
ccaggcaggg gtgagagtgc cagtggtgt tggtggagtc cagacagggt tggttacag	420
caagcatggg cagaccaaag cctgtgtgtg ggcacaggac cccacccagt gcctggcagc	480
acctctcaga aaagtagt gatactcacc aagaatttac gccctatgt taggataacc	540
atataattta tcattcagca cacaattgaa actgaaagta aatgc当地 aaaaatgtgtt	600
gggtgtgggg gaggcattac aggttaagct gggaccgtat gaggcaaacc aggtatgtac	660
ggcagcatcc tgatggggta ctccctactc taagttcatg tccttactta tttaatttag	720
tcatcgaaca gcctaacagg ggttagattct gtttctgttc ccgttctata gatgaggaaa	780
tggagacaca gagaggttag gatgccaagt gctttaagta tctggggca tgctggggcg	840
tctgtctgg gggaaaaggc tggccagat gcgtggagtc attggtagcc ctgggagcat	900
gtgtgtttgt gtgtgtgcgc gtgtgttat gtgtgtgtg tgtgttatgt gtggcatcaa	960
tccattctgc aggcatttct taagctcagg actgtgttag gggctgtccc aggtagggtt	1020
ttctggaaat agactcagac agagggttc ctcaggtat ttatcaggga gagttttgg	1080
gaacaacagg tgggggtgtg agggaaaggcag ggccgggcag ggggagatgc tgaactgcag	1140
tgcacctgcc acaggcct cagctgtcc caggagatcc tggagctggg atgcctctcg	1200
gttgggtccag ctgaggaaga gggctgggtt tttgtatctc catgtggact ggacaagaga	1260
ctctgggtga ggcagctctc tcttccagag agtgattccc agagaggac tcagccaata	1320
aattacccgg cagccccccag tactaccagt agctgggtgg gatgggtgtgg ggaggcctca	1380
ttcctgttgg agggacatgg gtggcacaggc acagcatctt acaggaaactg tagaggatga	1440
agaagggttt cagttttgg atgctgagct catcgaataa ctatgtgca aggtcataga	1500
cagtagatgt ccttagaatg gcccggatgc tggattgggg gcaactcatgg caggcaatgt	1560
ttcctgttgg cttcagggtt gggatggcat agatgttagac ctagaagtct tcaacttcc	1620
gagctgggtg attctccct gcctctcccg ggatcttgc caagctcgcc ctgttccagca	1680
ccaaagacag ctcttgggtt ccccttccct gcccaccac ccccttgggt gtgggtggat	1740

ggttaccacat cactcaacat gcttgacgtg gactaggcac acctgggtgg agcccccttag 1800
 catgtgtgc tctgcccagg caataacctt ggcaggagtg ggcagccctt agacgggagt 1860
 taggtcccg caggcatcaa gagggtgaga gccactcctt actgagttag gggaccata 1920
 ccaactgcct tggcctgggc ttccatatgaa ggtctccagc acctcagctg atctgaaact 1980
 gaggggcaaa gaggaacac aagctggcca gggccctag aacagaaatg cagaacctga 2040
 aaccaaatgt agaacagaaa gcctgagaac cagctacgc catgagctgc agacccatgg 2100
 gctgagaaac caggactggg ggtgccaggaggggtggg gagcctggga gtagccacac 2160
 agcacttagt cccaatgttt tcgtgtccaa aaaccaattt gtgtcaattt gggcaagtca 2220
 ctggactcc gggcacctgt ttctccctta ctcaaattggg gaggggcagg ttagagtgaa 2280
 ggctcaggaa gcagtcgcctt gatttgaatccacccctgc cacttccggag ccgcattgtta 2340
 ctcatccctgtt ccagacccaa gtttccatgaa gtgaaaata tggtaatgaaaccccttct 2400
 cacggagttt tggagatttc gtatttgggatccat ttctggccct gtctttctca 2460
 taaggatgcc tggccctgttc tgcatacaca agcccttccaa caccaggc aacgttgggt 2520
 gtattcatca agggtggccctt ctgttgttta aggaatttga ctggcttgcga gaacccagta 2580
 cacaggtaa taaaggtgac ctacgaaggccctgg gagaacacagacatctgtgc 2640
 tgggctggctt ctcctgtt ctggacgtgtt ggaggatgtc gatcccatttga agaagccccca 2700
 gcttttgcac gctgtctc actttatattt gttctgtggc ttccaccccttc cttgtatgtta 2760
 taggttactg atgtggaaac tgaaaacaga ggtgagggtcc aaagggtaggataatccagg 2820
 gggtaaccact caaaaacccctt tatatacaga aaggattctt ggacactgtg gtttcatttt 2880
 aaacaaggaa gtatgcgtt cccagaaaaaa taaaatatacg tccacccttgc ctcatttttga 2940
 acacttagttt cccttcaaga atgtgttggg agagaagtga aagtcttact cagcatgttc 3000
 ccaaagaaag ccaggccccc agggggccctt gcaactgggatccatggcaccag gcaacccaaa 3060
 tccacacccatggacttgcctt ctgttttccctt tggttccatggg gggagggtccatggcaccag 3120
 tctcttctccatggacccatggcaccag gcaactgggatccatggcaccag 3180
 caccggccctgtt agtgcaggccatggcaccag gcaactgggatccatggcaccag 3240
 gagggccgtgg ggtcttgatggcaccag gcaactgggatccatggcaccag 3300
 aagctgtccatggcaccag gcaactgggatccatggcaccag 3360
 acgcagggtgcctt ctggagggtgcctt agtgcagggtt ggtgggtggcaccag 3420
 acctcaccatgcctt caccatgtt ttccttagccatggcaccag 3480
 tggatcaga ggtcagctgg gggatggcaccag 3540
 acgtgcgtt acgcaccatgtt ttccttagccatggcaccag 3600

acaaggaagt	tgaaacacag	tttaaggaa	cttattcaag	gccacacagc	ttggAACAGT	3660
ctccatcttgc	tgAACCTAAT	actcttcata	ggggggccct	cagtttACCC	actggaggAG	3720
acaacaatct	caacctagaa	atagaggTCT	gagtgtGAAC	tgtcctGCC	ttagactaaa	3780
gccccAGTCG	atctcttctg	tggcttgcag	ttttctcatc	tgcAGAGTT	aagggttggc	3840
atgcagatac	tgtgcaccca	aattccctgg	agtCACATCC	cagcacGTCT	gtttactaac	3900
tgtgtgtcct	tggcaagTC	acttggatct	ctttgtGCCA	gtttcctcat	ttgtaaaatg	3960
gggatAGTGG	ttatAGTAAT	gegtccTGTG	tttcaatCgc	tgctGAACAA	acctatcaa	4020
aatgttagCGG	ctggccGGGT	gcagtaACTC	acgcctgtAA	tcccAGCACT	ttgggaggCC	4080
gagggtggca	gatcacctga	ggTCAGGAGT	tcaAGACCAG	cctggCCAAC	ataggaaAC	4140
actgtctcaa	ctaaaaatac	aaaaattAGT	tgggcatGGT	ggtgggCgc	tgtatCCCA	4200
gctactcagt	aggctgagac	aggagaATCA	cttGAATCCA	ggaggaggAG	gttgcAGTGA	4260
gccgagatttgc	cgccactCCA	ctctAGCCTG	ggtgACAGAG	cgAGACTCTG	tctc	4314

<210> 554
<211> 689
<212> DNA
<213> Homo sapiens

<400> 554						
aacgtctcaa	ctgtAAACTC	tgggcacGCG	gctagcGCCA	ggTCCTCTCC	agccctaACA	60
ttctgtgatt	ctaaACTTGT	ctgatTTGTC	tcatatGTTG	caaggcTCGT	agcaaaaAGA	120
aaaaaaatact	ccataACTAT	ttaacAGGAA	ttagctAAAG	cacAGCTCTA	gagAGAGAGA	180
cacacacaca	cgtttCAAAT	aacccGAACA	ctagAACCTA	gtGAATTtTA	tacCTTtACT	240
aaactttAGC	gattATTTGT	ttctttcGTA	acaaAGGTTA	ttgattAGAT	ttAGTGTGTA	300
aaaaaaACCA	caacGTGCGC	ttcGGTcATT	tgtCTTATGG	aggAAACATA	aatCTATAAA	360
tcttcctctt	gtctCTAAAGA	aataAAACTC	tcttcATTTc	caaAGTAAA	aaaaaaaaat	420
tggcaaATA	ccaaaaAGGT	aaaaaaaa	actcgaggGGG	ggggccGGTA	cccaattcGC	480
cctatAGGGA	gtcgTATTAC	aattcACTGG	ccgtcgTTT	acaacGTCGT	gactgggAAA	540
accctGGCGT	tacCCAACTT	aatcgccTTG	gagCACATC	ccctttCGC	agctggcGTA	600
atAGCGAAA	ggccCGCACC	gatcgCCCTT	tccaACAGTT	gggcACCCtG	aatggcaAAAT	660
ggcaAAATTG	gagcGCTAAT	aatttGTTA				689

<210> 555
<211> 4828
<212> DNA
<213> Homo sapiens

<400> 555
 cactgttcc acagcaatcg gtcagttgtg ggagtgttgc tccactacca gaaaagacac 60
 ccagaaataa aggttactgc caaatatac agacaggctc ctcccacagc tgcaatgtat 120
 agaggggtcg aaggccccca aggctcccc cggccacccg ccccccataca acagctgaac 180
 cgaagcagct ctgagagaga tggccctcct gtggagaatg agatgttctt ttgccagcac 240
 tgtgattatg ggaacccggac ggtcaaagggt gtactcatc attatcgaa gaagcaccga 300
 gacttcaagg ccaatgcaga tgtgatccgg cagcatacgg ccaccatcg aagcctctgc 360
 gaccgaaatc ggaagaagcc tgccagctgc gtgcctatct cccctctaa tctggagcgg 420
 gacaaaacga aactccgagc actcaaatgtt aggcagtgtc catatacctc cccctacttc 480
 tatgcactga ggaagcatat caagaaagac caccggccc taaaagccac agtcacgtcc 540
 atcatgcgtt gggcatttctt agatggcttg atagaagctg gtcaccactg cgagttgtgc 600
 atctactccc atacggagcc caacgggttgc ctctgtcatt accgacggag gcattccgaa 660
 cactatgtt attacaccta catggctact aaactgtggg ctggccaga cccatcccc 720
 ccctctctca caatgccagc cgaagccaaa acctacagat gcaggactg tggtttcgaa 780
 gctgtttcca tctgggacat cactaatcac taccaagcat tccacccctg ggccatgaat 840
 ggtgatgagt cagtgtact ggacatccat aaggagaaag atgctgtgga gaagcccatt 900
 ctttcatccg aagagttgac aggcctgttgc aatttgtgcaaa acagtatacc caccctttc 960
 ccggagcagg aagctgaatg tccagaggat gcaagactgt cccctgagaa aagcctgcag 1020
 cttagttcag ccaaccccgcatatccctcc accccatacc agtgcacggat atgccaatct 1080
 gagtataaca acttgcacgg ctttctact cattatggga agaagcaccc tggcatgaaa 1140
 gtgaaggctg ctgactttgc ccaggacatt gacatcaacc caggtgcgtt ctacaatgtc 1200
 aggcatgtcc catacatcaa caccggcattc cacggcgtac tgacccacta ccagaagcga 1260
 caccggcgttca tcaagggtgac cgctgaggac tttgtgcacg acgttagagca gtctgtgac 1320
 atatcccaaga atgacgtgga ggagacggc aggttctca agcaagggtt tggcgcttac 1380
 cggtgcaaacc tgggtccgttca cacacacggc actttggaga aactaaaaat ccactacgag 1440
 aagtatcaca atcagcctga atttgtatgtc ttttccactt cggccctggaa gtcggcagtc 1500
 cccctcgagc cggagatgac cactgaagtg agcccttccc aagttccat cactgaggag 1560
 gaggtgggag aggagccgt gtccacttct cacttctca cctcccaactt ggttccctac 1620
 actgtgttcc ggtgcagct ctgcaagtttgc ttctgttca cggaggaaaggat gatgcggcagg 1680
 cactaccgca tcaaggccaa taatgttccgaa gcccggcag aaggagaa caaccccttc 1740
 aagtgtgccc tgggtccgttca caccaacccc atccggcaaaag gtcgtggcagc ccactacgag 1800

aaggcccaacg acattatgtgc gtattactact cactgtttgg cagccctccag gaccatcagc 1860
gacaaggccc acaaagtgtat catcccatcc ccggcccaagg acgactcccc tcagctgagc 1920
gaggaaactcc ggccggcgagt ggagaagaaa aagtgttccct tgcgtcttt ccagtcgttc 1980
agcaagaagg gcategtgtc ccattatcatg aaacgccacc cagggtgtt cccaaagaag 2040
cagcacgcca gcaagttggg gggctacttc acggccgtct atgcagatga gcatgagaag 2100
ccccacactga tggagaagaaga ggagagaggc aactttgaga aagccgaggt ggagggtgaa 2160
gctcaggaaa tcgagtggtt cccatccgc tgcatcaaat gttcaaggt gtccctttagc 2220
actgcagagc tgctgtgtcat gcattacact gaccaccaca gtccggacct aaagaggggac 2280
ttccatcatac tggcaacgg ccccccgtt cagaactcca ctaccatgt taagactgt 2340
gatagcaaac tgcaaaagcac agccgagctg accttcacact tgaacattca caatgaggaa 2400
ttccagaagc gtgcaaaacg tcaggagagg agggaaacagc tttttagcaa gcaggaatat 2460
gcagatgggtt cttttgcaga ttccaaacaa gagaggccctt ttggtcaactt agaagagggtg 2520
ccaaagatca aggagagggaa agtgggtggc tacaaaatgtt aattctgtgtt ggaagtgcac 2580
ccaaacgctcc gagccatctg caatcacctc cgaaagcaeg tccagatgg caatgtccca 2640
gctgtgtcag ctgctgtgaa ggaggccggat gaccctgcctt acttattctt ggatggattt 2700
gaagcagcca aagacgcaag tggcgccctg gtggggccggg tggatgggttga acactgtttg 2760
cttgcgttggaa tggtggagga tggaaacccgg ccggggggat accattgcag tcaatgtgtac 2820
agagtccctga tgcgttccatgtca ggggctgcgt tctcatgaga ggagccaccc ggcctggcc 2880
atgttttaccc gcgaggacaa gtacagctgc cagtagatgt ctgtttttc tgctttcagg 2940
cacaattttgg atgcgcctat gcaaaacccac cacggacacc ataaaccatt ccgtatgc 3000
ctctgtctct tcaagtcttc ctataacagc cggctaaaaa cacatataact ccaaagctcat 3060
gctgggtgagc atgcctacaa gtgttcttgg tgctcattct ccaccatgc aatcagccag 3120
ctgaaggaaac actccctcaa ggtccacggaa aagccctga ccctcccccag ggcacggatc 3180
gtcagttctcc tctcttcaca ctccccaccac tcctcccaaa aagtcacccccc ggctgaagaa 3240
gtggaaagact ccaatgactc atcatattca gagccccccag atgttcagca gcagttgaac 3300
cactatcagt cagctgcctt ggcaaggaaac aacagccgtg tttagccctgt gcctttttt 3360
ggggctgtctt ctggactgtca gcagaaaaact gaagccgtgc ttcaactgtca attctgtgaa 3420
ttcttcctccg gctacatcca gagcatcagg cgtcattacc gggacaagca tgggtggaaag 3480
aagctttca agtgcacaaaga ctgtccctt tacacaggtt tttaaatgtgc ttttactatgt 3540
cacgttggaaag ctggggactc aqcaqttccc qaggaggqccc cccaaagatct tcgtatctt 3600

ctctgcctct atcacaccaa atacaagcgc aacatgattt accacatcggt gctgcactga	3660
gaagagcgttgg tttgtccccat tgaagtttgc cggccaaacat tgccaaata ctggcaggga	3720
gtatgttttc gctgtgataa gtgttccatc acctgctcca gtgtatggagag cttccagcaat	3780
catatagaaa agcacaatga actgaaacct tacaaatgcc agctctgcta ctatgagacc	3840
aaggcacacgg aggaactgga cagccaccc ttccggatgagc ataaggtaag ccgttaacttt	3900
gagctgggttgg gacgggtttaa cttggatcgt ctggaaacaga tgaaggagaa aatggagagc	3960
tccagcagcg atgatgagga caaggaagaa gaaatgaaca gcaaggctga agacagagag	4020
ctgatgagat tttctgacca cggggctgtt ctttaacactg agaaggctttt tccatgtgaa	4080
tttttgtggac gggcgttttca acagggtctt gatgtggaaa gacatgtgtt gggacacggc	4140
atggcattga atgacaccaa gcagggtgagc agagaagaaa tccacccaaa agagatcatg	4200
gagaacagtgtt taaaatgcc ctccatagag gaaaaggaaatg atgacgaggc cattggata	4260
gactttttccc taaagaatga aacagtagcc atctgtgttag taactgcccga caaatctctc	4320
ctggagaatg cagaggccaa aaaagaatga gcgtttgggtt aaattcttaa tcaaaccctta	4380
cttgaacagt gatggaaaatgg tggggggctt ggctttggctt gagaaggaggg ggacagaaaa	4440
gagaagacag aacaaagctg cttttttagga ctgaacaatc tattttcaaa gcaactggtag	4500
ctgtgtgtt gatgtatgttta attaaatgtt tttttatgtt tggatatgtt ggcttctttt	4560
ccatcaatc atcttttctt ccggatcttc atcatggaaat tttcatttttg tgcggaaatat	4620
ggaaagcacctt cccatggtaa cgggtgcaccc ttgtgggttgc ttggacatgtt tggaaaca	4680
gaagctccat gacggtagaa gacttctcat tggggagcaa cttttttacg cacaactttt	4740
gggtgcgtttt tcttagttta atacatggaaat cttttttcaag acctaactgc agccgctttt	4800
ggaaaaaaaaaaa aaaaaaaaaaca aaaaacag	4828

<210> 556
<211> 279
<212> DNA
<213> Homo sapiens

<400> 556 gggggcgcgc tccatggaga agccggatgtt ggccaaataca caccctgggg cacattgtatc	60
agtgcgtacgc atgagatggg gggcagcgtt gggccgtat acaacggcga gacactttaa	120
ccaggtgttag atcaagaccc agatgtatgg ccactaacctg ggcgagatctt ccatcaccta	180
ctagccccggaa aagcatggcc gggccgtat caccggccacc cacttgccttca gcttcatccc	240
tctgaagtttttggctcagctt aataaaaggctt cacatgtactt	279

<210> 557

<211> 390
<212> DNA
<213> *Homo sapiens*

```
<400> 557
ttttttttt tttttttgt ctgctggcaa ttccaaagaac atcactgcta cattgagcaa 60
ctatccatct ttaaagagcc agcagagcaa aacaaaataa atctctttc caaaggccagg 120
ataaccaga agacttcctt caaaaagcag gggactggaa aaaggggaaa agggaaaggaa 180
agagataaaag taaagctttt ccaaatttg gcttttgct cctattccct ctgcctgttt 240
tgaaaaactta aggataagca atgacattag cagtgtcttt ggtatctaaa ccaaatcccc 300
cttaagtctt gtgggatcat ttataaaaaa aatacgccct tctagagata cagtcataat 360
ccaaactcaq qgaqccaaqa aqgtttgtcc 420
```

<210> 558
<211> 1227
<212> DNA
<213> Homo sapiens

tgccagaaatg aataacaacag aacactgctc ttttgattt tattttgact ttttggcttg 1140
 ggatatggg tttaaatggg cattgtctgt accagcttca taaaataaa caatatttg 1200
 aaaaatcaa aaaaaaaaaaaaaaa 1227

<210> 559
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n is a, c, g, t or u

 <220>
 <221> misc_feature
 <222> (340)..(340)
 <223> n is a, c, g, t or u

<400> 559
 ngacaaaatag actcgccctaa gagggccttt ctctccaagg cctcgccagg acaggctgtg 60
 tcactttctt aggtggcacc taccgtctgt tgcacacttg ctgcagatga tttggcacag 120
 gatgtcgctt cagaaaacctt tgtaggaagg cgtagtcgtt accgtcccc atttcacaga 180
 caggaaatgtt caggccttag atgcactgcc tgataccctg tgccccccgc gttcctagac 240
 agatacactg cctggcacac tgtacccccc caccggcgat atcggttgc agctgggggtt 300
 gaacccctgc aattcaatag acaagggttcc ccctttagt agccccccat ctgcttaact 360
 gagggcttgtt ctcgggttat aaatgtctgg gtgggggtgg gcaactgtgg ctgcagctgt 420
 caggactggg aatgctgaac ctgcactgag gg 452

<210> 560
 <211> 1197
 <212> DNA
 <213> Homo sapiens

<400> 560
 gtagcgggaa ccatatacgg ctaggtacga ggctgggtgg ctagggcgat ggctccccgc 60
 gggaggaagc gtaaggctga ggccgcgggtg stcgcggtag ccgagaagcg agagaagctg 120
 gcgaaacggcg gggagggaaat ggaggaggcg accgttta tcgagcattt cactagctga 180
 cgcgtctatg ggcgaacacgc cgccggccctg agccaggcgcc tgcccttggg ggccccagag 240
 ctccagtaa aggtgaaccc gacgaagccc cggaggggcg gcttcgaggt gacgtgtgg 300
 cggccgggac ggcagcgtg cggagctgtg gactggggat taagaagggg ccccccatttgc 360
 aactcaaatt ccctgagctt caagagggtgg tggaaagagtt gaacgcgtt acctgtcgat 420

agggagcatt	gggtagaagc	cctcattgt	gagctttgtg	ttccctggtg	atgtgggacc	480
attaatgtat	gaacatggcc	aaatttcagt	cattgatctt	gaagccatgg	tttcttcccg	540
tgccagaaaat	gacaggctca	gttatgaggc	aacccttta	gtagggcatt	gtaaaacgta	600
cctggattgg	ggtttactac	caccgttta	cacttacggt	acacacaac	acacaaaaaa	660
aaacgttggg	gggcactcta	tagtgcggag	gggcgcggac	aacaccgcgg	ttacatgaac	720
gtggcacatt	ggggccaata	gggtgttccc	ctggacgcac	agtttctttg	gtacacaggg	780
tggggtaaac	tctggcgcccc	acaccctta	ataggggag	ggcgagaata	aattttcgga	840
taaacgcagg	gttaccttg	atagacatct	tgactgtaca	acaagagggg	aacgaaaacg	900
aaagcacaaa	acaaggaga	aaaacgacga	ctggggagaaa	aggaggagga	gagggaggag	960
gagagggaga	gcagaagaag	cgagaggagc	aggaaaagag	gaggaccacc	caaagagacg	1020
agggaaacaag	agaggagaga	gaacagagga	taacgcgaaa	gaaaggaaga	agcacgatgc	1080
aaacagaaac	aagacgagac	agagtggcg	agcaggagag	agggggagaaa	agaaggagag	1140
gagagggag	aggagaagaa	agcaagagga	aggggacgc	gacagaaggg	caggacg	1197

<210> 561
<211> 764
<212> DNA
<213> Homo sapiens

<400> 561	ggcacgagcc	ccgcagtgc	gctgcggcta	ccgcgcgcct	ctgcggcgg	gcccgtctgt	60
	ctaccccccag	catgagcggc	ctgcgcgtct	acagcacgtc	ggtcacccgc	tcccgcgaaa	120
	tcaagtccca	gcagagcgag	gtgacccgaa	tcctggatgg	gaagcgcata	caataccagc	180
	tagtggacat	ctcccgaggac	aacgcctga	gggatgagat	gcgagccttg	gcaggcaacc	240
	ccaaggccac	cccaccccg	attgtcaacg	gggaccagta	ctgtggggac	tatgagctct	300
	tctgtggggc	tgtggacaaa	aacacgctgc	aggagttct	gaagtcggct	tgagtcaagc	360
	ctgtccagag	ttccctgtct	ggactccatc	accacactcc	ccccagcctt	cacctggcca	420
	tgaaggacct	tttgaccaac	tccctgtcat	tcctaaccta	accttagt	ccctcccccc	480
	aatgcaggcc	acttctctc	cctcttctc	taaatgtat	ccctctct	ccatgtaaag	540
	gcaacattcc	ttacccattt	gtctcagaaa	tttgtcttaag	caacagcccc	aaatgtggc	600
	tgcggccagc	caagcattgg	ggccgcgcata	ctgcctggca	ctggctgtat	ggcacctctg	660
	ttgggttccat	cagccagagc	tctgc当地	gccccgcagt	ccctctccca	ggaggaccct	720
	agaggcaatt	aatgtatgtc	ctgttcaaaa	aaaaaaaaaa	aaaa		764

```

<210> 562
<211> 2661
<212> DNA
<213> Homo sapiens

<400> 562
gtccccgggg ccacgggatg acgccttc cgcggggac tgccggcccc agcgcaccgc 60
gcggcccggtt ccctggcccg cgggtcggt tggggttcc gctgcggctg cggtcgctgc 120
tgctgtctgtt ggccggccccc gcctccgccc agggccacct aaggagcggaa ccccgcatct 180
tcggcggtctg gaaaggccat gttagggcagg accgggtggaa ctttggccag actgagccgc 240
acacgggtgtt ttccacagag ccaggcagct cctctgtgtg ggtgggagga cgtggcaagg 300
tctacacttt tgacttcccc gaggggcaaga acgcatactgtt ggcgcacgggtt aatatcggtt 360
ccacaagggtt gtccgtctgtt gataaggcggtt actgcggagaa ctacatcaactt ctcctggaga 420
ggcgaggatgtt ggggctgtgtt gcctgtggca ccaacgcccgc gcaccccgac tgctggaaacc 480
tggtaatggg cactgtgtgtt ccacttggcg agatgagagg ctacggccccc tttagggccgg 540
acgagaactt cctgggttctgtt ttggaaagggg acgagggtgtt ttccaccatc cggaaggcagg 600
aataacaatggg gaagatccctt cgggtccggc gcatccgggg cgagagttagt ctgtacacca 660
gtgataactgtt catgcagaac ccacagtta tc当地ggccac catcggttccac caagaccagg 720
cttacatgttga caagatctac tacttcttc gagaggacaa tc当地gacaag aatcctggagg 780
cttcctctcaa ttgtgtccgtt gtggcccaagt tggcagggg ggaccagggtt gggaaagttt 840
cactgtcagt ctccaaagtgg aacacttttca tggaaaggccat gctggatgtt agtgtatgtt 900
ccaccaacaacaa gaacttcaac aggctgtcaag aegtgttctt gtc当地ctgtac cccagccggc 960
agtggaggga caccagggtt tatgggtttt tctccaaccc ctggaaactac tc当地ggctt 1020
gtgtgtatttc ctccgggttac attgacaagg tttccgttac ctccctactt aagggttacc 1080
actcaaggctt tcccaacccggcggccgtt gacccgttacc cagagggtggc gcagagggtt gagcccatgg 1140
cagagacctt ccagggtggcgtt gaccgttacc cagagggtggc gcagagggtt gagcccatgg 1200
ggcctctgaa gacccgttacc tttccacttta aataccacta cc当地aaagtgtt gccgttccacc 1260
gcatgtcaaggc cagccacggg gagacccgtt atgtgtttt ccttaactaca gacaggggca 1320
ctatccaaatggtggaa cc当地ggggagcaggacacag ctteggcttc aacatcatgg 1380
agatccagcc ctccggccgc ggggtgttcc tccagaccat gtc当地gttggat gctggcggga 1440
ggaaaggctgtt tggtaggttcc cagtggtggagg tgacccgtt gccctggac ctgtgttggagg 1500
tctatggcggtt ggggtgttccac ggttgcctca tggccggaaa cccctactgc ggctggggacc 1560
aaggccgtgtt catctccatc tacaggttccaa aacgggttccat gtc当地aatccatcc 1620
ccggccaca caaggaggtgtt cccaaacccaa aaccagacaa qqcccccacta cagaagggtttt 1680

```

ccctggcccc aaactctcg tactacctga gctgccccat ggaatccgc cacgcccacct 1740
 actcatggcg ccacaaggag aacgtggagc agagctgcga acctggtcac cagagccca 1800
 actgcacccct gttcatecgag aacctcacgg cgccagcgtg cggccactac ttctggcagg 1860
 cccaggagg ctcttacttc cgccaggagtc agcaactggca gctgctgccc gaggacggca 1920
 tcatggccga gcacctgctg ggtcatgcct gtgcctggc egctccctc tggctgggg 1980
 tgctggccac actcaacttggt ggcttgcgg tccacttaggg cctcccgagg ctgggcatgc 2040
 ctcaaggcttc tgccagccag ggcaactagaa cgtctcacac tcagagccgg ctggcccg 2100
 agctccttc ctgccacttc ttccaggggcagaataacc cagtggagga tgccaggcct 2160
 ggagacgtcc aecgcgcaggc ggctgctggg ccccagggtgc gcacggatgg tgaggggctg 2220
 agaatgaggg cacggactgt gaagctgggg catcgatgac ccaagacttt atcttctgga 2280
 aaatatttt cagactccct caaaacttgac taaaatgcagc gatgctccca gcccaagagc 2340
 ccatgggtcg gggagtggtt ttggatagga gagctgggac tccatetcgatccctgggct 2400
 gaggcctgag ttcttctgga ctcttggatccatatttgc tccctccctt ccctctctca 2460
 tggctgggtg gctgggttcc ctgaagaccc agggttaccc tctgtccagc cctgttctct 2520
 gcagctccctt ctctggctct gggtccacaca ggacagccgc cttgcattgtt tatttaagga 2580
 tttttttttt ccggacggaa ggacggaaaa agctctattt ttatgtttagg ttatatttcat 2640
 gtatacgatc ttccgactgc c 2661

<210> 563
 <211> 507
 <212> DNA
 <213> Homo sapiens

<400> 563
 ttctccaggc tggccctcag cctggcgccc cttccgcaga catccctaga aaaagaacta 60
 acgcggccctt ctccgagccc agggttggag taggaagtac ccgcctccca gaacgcgcagg 120
 ttctggctgc gcattggctg cgaaggccgt cagactccg gagggcggag cctccggca 180
 cccagcggaa ttccaggccc gcaccccgagggctcc cgggttcccg ggcttctttc 240
 ctccccctta acactacccc cgacacacaca cggccccgaa gaaggcaact agccctctca 300
 aacggttctt ttgcctttttt atttcgagg ctttcctctc accccatata gttactgccc 360
 ctttgactcc tccgagaggc aaagctttttt caaagctcta acacccctcc cctaccccg 420
 caagttcccc gtgcgagacc aaatagagga tgccgctgtt ctaagagtga agcaagctgt 480
 ggactggatc tcgccccggg agagaga 507

caagtgtgtg acctgtggct acatgattcc ctgaaagata agaacaatgt tatgttgggg	180
atattggctc ctggccac ctggatcatg caccaacact cagggaattt tggctgacc	240
ccaggtgtgt gggttcatat ctgacagaag tgtcaaggaa gtggcctgtg gggaaacca	300
ctctgtgttc ctgtggaaat atgggaaatg ttacacatgt gtttgaaca ccaaggggca	360
actgggccc gaggggaaag gaaacaaggc agaacaattt ggagctctgg cagatcagca	420
tatcattcat gtggcatgtg gcgagtcaca cagtctggcc ctcagtgacc gaggccagct	480
gttttcttgg ggtgcaggaa gtgtggca gctaggactc atgactactg aggattctgt	540
ggcagtgcggc aggttaatac aaaagctgaa ccagcaaaca atattacaag tttcctgtgg	600
caactggcat tgcttgctc ttgcggctga tggccagttc ttcacctggg gaaagaacag	660
ccatgggcac ctggccttag ggaaggaggat cccctcccaaa gccagccccac agagggtgag	720
gtccctgggg gggatccac tggctcagggt ggctggcgaa gggctcaca gcttgcct	780
gtctctctca ggagctgttt ttggctgggg gatgaataat gceggcagc tagggctcag	840
tgtataaaaa gatcagaat ctccatgcca tgtaaaaactc ttacgcacgc aaaaagtgt	900
ctatattatgt tgggagaag aacacacacgc agttctcaca aagagtggag gtgtgtttac	960
ctttggcgcg ggttcctgtg ggcaacttgg acacgactcc atgaatgtatg aggttaaccc	1020
tagaagaggat cttagactga tgggtgtgtg agtaactcaa attgcttgcg gcagacaaca	1080
tacccttagcc ttegtgcctt ctgcggact catctatgc tttgggtgtg gagcaagagg	1140
tcaatttagga actgggcaca ctgtaatgt taagtgccta tctcctgtca agggttactg	1200
ggctggccac agtggccagc ttgcggcccg agctgategc tttaaatatc atatcgat	1260
gcagatcttc tctggaggag accagacttt tggactttgc tccaaatacg agaattattc	1320
tcctgctgtt gacttcagga ctatgaacca agcacattat accagttaa taaatgtatg	1380
aaccatagca gtttggagac aaaaactctc agaacacaac aatgcaaaata caatcatgg	1440
tgttggtagatattatctt ctgcggcctg ttggatggaa agttttcttgg aaaaaaaaaat	1500
tgtatgaacat tttaaacgaa gtcggggattt gacctgaact caacttaggt	1560
gttatttttaga aagttatgtactctcagca ctccatgatt ctggaaacaga ttttggacag	1620
ttttggaaatgt tggacttttc cccagttgtc aagctcacca ccagatgttgc aagccatgag	1680
aatctatataatactacactg agttttccctt actccaggat tccaaatgttataacat	1740
gactattccc ttggctatgg ccattttcg gctggataca aaccccgacaa aagttactaga	1800
taactgggtgg tctcaggatgt gcccggaaata tttcatgaag ctggtaaaacc tctataaagg	1860
tgcagtcctt tatctactga gggaaagaaa gacattcttta attccccgtac tggtaacaa	1920

ttatatacaca gcagctcta aactcttgg aagttatat aaggtaaatc taaaagtgaa	1980
gcgtgtggaa tatgatacat ttacattcc tgagattcc aatctcggt acattcaggaa	2040
agactacctc atgtggttct tgcataaagg agggatgaag gctagaccat caataataca	2100
ggatactgta acactttgtt cctaccctt catcttgat gcccaagcca agaccaaata	2160
gttacagaca gatgctgaac tacagatgc ggtggcagtc aatggagcca acctgcgaa	2220
tgtcttcatg ctctccatccc tggagccctc gctggccaga agcccccttc tggcttca	2280
cgttcgcagg aacaacccctt tggagatgc cctaagagag ctgagcatc attctgatata	2340
tgatTTGAA aagcctctca aagtaatctt tgatgtgtaa gaagcagtgg atgcccgtgg	2400
tgttacaaag gaattttttc ttttgcgtttt aaaagaactt ttgaatcccc tctatggaa	2460
gttacacctc tatcaagattt caaatcttgc gtggtttca gacacgtgtt ttgttagagca	2520
caactggttt cacttggatg gtataacctg tggactagct atctacaact ccactgtgg	2580
cgtatctccac ttcccatgg ctctctacaa gaagtttactc aatgtaaagc ctggcttgg	2640
agacttaaag gagttgtcac ccactgaagg aaggagtctc caagagcttt tagattaccc	2700
cggggaggat gtggaggaga ctttctgcct caacttcacg atctgcgag aaagctatgg	2760
agtgttggaa cagaagaagc tgatacctgg gggagataat gtaactgtgt gcaaggataa	2820
caggcaggaa tttgtggatg cttatgtgaa ttatgtcttca caatctcag ttcataatgt	2880
gtacacagcc ttctctatgt gtttctttaaa ggtgtgtgtt ggcaaaagtac ttgagcttt	2940
ccagcccttca gaactgaggg ctatgtatgtt gggaaacagc aactacaact gggagaact	3000
ggaagagact gccatctaca agggagatta ctccggccaca catcccactg taaaactatt	3060
ttgggaaca ttccatgtgtt ttccatggaa aaagaagaag aagtttctct ttttctgtac	3120
aggcagcgtt cggatccca tttacggcat ggccagctgtt cagattgtca tccagtcac	3180
agccagcggg gaggagtact tggcggtggc ccacacttgc tacaacccctt ttgacccccc	3240
caagtacagc agcaaagaga ttctgtgtgc cccgtgcacc caggcccttg acaactatgt	3300
agggttttagt ttggcttgcgtt ttgttgcgtt ttcccttgcgtt ttccctgtgt	3360
tccacattga ggcctataca gaaaatcatg gggagtgtt tttttttttt tattgtctaa	3420
gtgggttggg acttttaat actgagccctg gttgtgtgtt ttctgggatt gtatagcgtt	3480
aaacaacccctt ttggaaaaat tagaggttgg ggtgggggtt aaaaattggc ctttgcgttgg	3540
gagggtttttt ttgggggggg ttaaaccaaa ctacccagta ttcccttgcac ttgtgtatgt	3600
gttgtcactct gctggatgaa atggcgtgg atttttaaac tttaattcc caaatgtctc	3660
tctcagccctt gatgttttctt cacagtgtttt ctttgcgtt ctcttaactt ctcattccctc	3720
tataagaatg atttagactg acctgtctt ttttatctgc gcatgcgaga acatcacctt	3780

cctctgtaca	cttggaaatg	cctctggctt	gttgcagccc	tccttaacc	caaaggagga	3840
aaggactgct	tcaagaaactc	ccaaattccaa	aaagctgagt	ctgggtccat	tattttggca	3900
gaactcctaa	gaatttatgg	gagcctatat	aaacatatct	tgctttaaa	aagttcttga	3960
gsgaatagca	actttcccat	ggctgtgcct	atttcctaga	cctttaaaa	gatgtgcaga	4020
gcagcttagc	attcggtgca	gctgagccta	atttttctt	gctcatcctt	gtcccttga	4080
caataagggtt	aattgtataga	cccaccacct	cttgcactct	cgcttttga	gcaagttgca	4140
ttaactat	tttgcgttata	tattgtccaa	gaaaagtaga	aataataat	ttactttccc	4200
tttttctatc	accttatgtc	ctctaccatt	ttctccttcc	tcccttccct	tattttctcc	4260
tttctgtacc	ctgtgtccctc	cctgattttc	cttgcgtttc	ttcttttattt	tatcccatc	4320
tctgtttactt	gactcagtgc	tccttcctc	tccttcctt	ctagtggatg	catgcagcct	4380
tttttcaat	ttttattnaa	attgcaaaat	ttttactcag	attttttcc	ctcttcctca	4440
attgctaaga	ttaaggacg	tttctttatta	tgaaacttta	tcacattcga	aatgtttgtt	4500
tacagtggaa	ttttaggggg	gattgtgtt	aatcaaata	tatgtat	tttaaaataatg	4560
acatgctcaa	ccttcctcat	catggagtaa	gaaaattcta	catgattaaa	gaatccatgt	4620
aagtctaaatt	ttaaattcc	agtaactaga	gaaaagactt	atttatataa	aatgaagtgat	4680
ttatgaactg	tgataaaagca	tcaaaatctt	atgaaggatt	gtagat	ttttttctt	4740
tttgcgttta	aaacttattc	caattgctaa	attggtagtt	tttcagtctt	tataaataca	4800
ggattaaaaaa	tatataataca	gttatatgaa	atgtttat	tctatgtgt	tgcataatagt	4860
tcaatattat	gcaataaatt	ttggtgttta	actt			4894

<210> 567
<211> 315
<212> DNA
<213> Homo sapiens

<400> 567	aggtgaatga	tgactacaat	aacattgcaa	ctatttcttt	cctggcatag	ggaggttaata	60
	agaaaactaaa	tgatcgcatg	gtacatgctt	gtattatata	gatgggttta	ggaatctata	120
	aagtatggag	gttaggaagac	accatatgtc	caggatcaa	acattcctca	tattgaggta	180
	gtcttagtcaa	gctgtttcat	gtagctgctt	taggaagtgg	ttaaggaag	cttactccca	240
	cttcaagttt	agcacccaaag	caatcaactaa	ttctggagca	caggaagact	gctatctcat	300
	cattcacctt	tgcag					315

<210> 568
<211> 2321

<212> DNA
<213> Homo sapiens

<400> 568
cttcctgaaa ggatctggag acaccagctc cacaagtctt ggtgtcttta aaaggatcg 60
cttgaggaaat aaggctcgctc tgagagctgt gacattcatc tgactctagt gaaagtccaa 120
cageccactcc cttttggcc tccaactggg caccatgagg gcctgcacatct ccctggatt 180
ggccgtgctg tgtggcctgg cctgggctga ggaccacaaa gagtcagagc cattgccaca 240
gctggaggaa gagacagaag aggccctcg cagcaacttg tacteggcac ccacccctg 300
ccaggccgc tgctacgaaag cctttgacaa gcaccacaa tgctactgca atgcccgcgt 360
ccaagagttt gggaaactgtc gcaaggattt tgagagctgt tgtagtgacc acgaggctc 420
ccacagcgt gatgccataa caaaagagga gattcagagc atctctgaga agatctacag 480
ggcagacacc aacaaagccc agaaggaaga catgttctc aatagccaa actgcacatc 540
ccccgtcagag accagaaacc aagtggatcg ctgccccaaag ccacttctca cttatgtcaa 600
tgagaagctg ttctccaago ccaccttatgc agccttcatac aacccctctca acaactacca 660
ggggcaaca ggccatgggg agcaatttcag tgcccaggag ctggccgagc aggacgcctt 720
cctcagagag atcatgaaga cagcagtcat gaaggagctc tacagcttcc tccatcacca 780
gaatcgctat ggctcagagc aagagttgt cgatgacttg aagaacatgt gttttgggt 840
ctattcaaga ggcaatgaag agggggactc gagtggtttt gaacatgtct tctcagggtga 900
ggtaaaaaaa ggcaaggta ctggcttcca taactggatc cgcttctacc tggaggagaa 960
ggagggtctg ttgactatt acagtccatc ctacgatggg ctttgggatt cttacccca 1020
tgtgtctggca atgcagttca actggacgg ctactataag gaagtgggt ctgtttcat 1080
cgccagcgc cctgagttt agtttgcact ctactccctg tgcttcatcg ccaggccagg 1140
caaagtgtgc cagttaaagcc tgggaggata tcccttagct gtccggacat atacctggga 1200
caagtccacc tatggaaatg gcaagaagta catgccaca gcctacatag tgccttcac 1260
ctaataaaac ttcgagccag aaaggggcat gagggtctt gcgagactga agtgcatact 1320
tctctggact agagagaaga gggagaggac tggaaaggat caccaaatct caaagcaatg 1380
agaagccatc ctaaaatccca aagtccccatggaaaga gataaaatgt acaaattaga 1440
aaaatgtgga taaacagtca aacccatc tcttagaatt ttggcaatgt tgactaagaa 1500
acagagtcac agcagagaag ttaggaaccc tccatagctc tctggccctga tgggtgggg 1560
aacttagaaag aagtcccttgc acctcaccag gcctcatgtc tcccttaat gtaaaggaa 1620
ggggtttgc cactttctc tttttgggt tggtgagagg gcaaacccctg atatttttac 1680
tgtgaagggt ttttcagtttgc ttttttaggaa gaacagctga tagaaattca agattactat 1740

aatggctgtt	attatacaca	gctctgtaaa	ctaccactca	gccctgtgtt	ggggcttc	1800
aagaagtaag	gccacagtaa	tcaagcaagg	gcctttgggtt	tttccagag	ttagatcctc	1860
tcagaacaga	gtctgggaga	actccaatgc	tgaatggaga	agggtatag	gttggtgca	1920
tgaatgggt	gggggtgggg	tggccttc	caggcctgag	tgttttgtt	tccagctcg	1980
tatctgcaac	aagaagtttc	ccacttgtgg	atgttttagt	cagccacaga	cttgtat	2040
gatccccaa	ttttttttga	aagagtctc	ctcataggag	gatgattcg	catcagaaga	2100
agaaggaacc	catagcttg	tgtcattaa	ataattattt	taagccttat	ccagcagcca	2160
taatttgaat	aactctacga	gaccagagag	actgttagttc	cctattttaa	cctcaattat	2220
gcattttgtcc	cccaacccca	ctgagaacta	aatgtgtac	cacagagccg	ggtgtgaact	2280
atggttttaga	aggttcaagt	ttccaattaa	agtcattgaa	g		2321

<210> 569
<211> 497
<212> DNA
<213> Homo sapiens

<400> 569	ttttttttt	tttttttag	gggaggaagt	ggaggagaga	tgataggaaa	ctcctcctta	60
aggttgccga	ctcctaactt	tctgaaaatg	actaaggaaag	agaaattcca	agggaaagaga		120
aacatgtttc	tttcttggtc	tctggttatc	ccacctgagg	agagaggcct	ctgatgacca		180
gacatggaca	acaggggagt	gtctggttct	ggaaatgtgt	aaccaagttg	gagcaccagc		240
agggatggat	tacacccacg	ggccacctct	catttcagat	gattcgcatt	gattctcaac		300
tcatttaggaa	aacccgcctt	gcatctccaa	gggcttcgaa	atttgataca	gaaataaga		360
tgtgaggtt	gggggtgtgt	ttcattccctt	cttcttagtt	taggcataaa	ctttagaaaa		420
gaaaagcatg	tatggaaatt	taacaggata	ccattnagat	gcccgaatg	agcaggattt		480
gttttgcataa	attatgg						497

<210> 570
<211> 658
<212> DNA
<213> Homo sapiens

<400> 570	ggagcctcac	grgagcggk	taacgttata	gtatgtca	gaagttgggg	tctccgtgg	60
cattgtgatc	cgtcccgaggc	agtggattag	gaggccagaa	ggagatccct	tccacgggtgc		120
taggctgaga	tggatccctt	caggcccaa	cagctggctg	cggagctgga	gttggagatg		180
atggccgata	tgtacaacag	aatgaccagt	gcctgccacc	ggaagtgtgt	gcctcctcac		240

tacaaggaaag	cagagctctc	caagggcgag	tctgtgtgcc	tggaccgatg	tgtctctaag	300
tacctggaca	tccatgagcg	gatggccaaa	aagttgacag	agttgtctat	gcaggatgaa	360
gagctgatga	agagggtgc	gcagactct	gggcctgcat	gaggcccctg	tcagtataca	420
ccctgggtg	taccccaccc	cttcccactt	taataaacgt	gctccctgtt	gggtgtcatc	480
tgtgaagact	gccaggccta	ggctctgt	agagagtctt	caagatccc	gagtggtagc	540
gctgtctctt	ggtgaaggag	tatttgtac	actggaatgt	gactgtgtgt	gtatgtatgt	600
gtatatatat	atataaaaaac	aagtttgtt	acacctacaa	aaaaaaaa		658

<210> 571
<211> 4045
<212> DNA
<213> Homo sapiens

<400> 571						
atctctctcc	ccgctccccca	gcctcgggcg	aggccgtccg	gccgctaccc	ctcctgtctcg	60
ggccgcgcag	tcgcgcgtcg	cgccgcgcgc	ggccgcctgg	ccaatgacag	cgccggggccc	120
ggccggccga	gcccggcgca	gcccggccgg	cagtaactcg	agctgtgcgg	gaagatggag	180
aacctgctgc	gctgcagccg	ctgcgcgcgc	tccttctact	gctgcaagga	gcaccagcgt	240
caggactgga	agaagcacaa	gctcggtgc	cagggcgcgc	agggcgcct	cgcccacgga	300
gtggggccac	accagcattc	cgccccggcg	ccggccggctg	cagtgcgcgc	gcccaggggcc	360
ggggcccgcc	agcccaggaa	ggcageggcg	cgccgggaca	aegcctccgg	ggacgcggcc	420
aaggaaaaag	taaaggccaa	gccccggcc	gaccggcgg	cgccgcgcgc	gcccgtgtcg	480
gccccggccg	gccccggccg	ctcgccggtg	gctgcgcgaag	ccgagcccg	caaggaggag	540
ccggccggccc	gctcatcgct	gttccaggag	aaggcgaacc	tgtacccccc	aagcaacacg	600
ccccggggatg	cgctgagccc	cgccgcgcgc	ctgcggccca	acgggcacac	gaagccccctg	660
ccggcgcgtg	agctggggct	cgagttacatc	gtgcgtgc	tgaacacaga	cgccatctgt	720
gtgggtggacg	acttcctcg	caaggagacc	ggacagcaga	teggcgacga	ggtgcgccgc	780
ctgcacgaca	ccgggaattt	cacggacggg	cagctggta	gccagaagag	tgactcggtc	840
aaggacatcc	gaggcgatata	gatcaccctgg	atcgaggcca	aggagcccg	ctgcgaaacc	900
attgggctgc	tcatgagcg	catggacgc	ctgatacgcc	actgtacacgg	gaagctgggc	960
agctacaaaa	tcaatggccg	gacggaaacc	atgggtgtt	gttatccggg	caatggaaacg	1020
gtttatgtac	gtcatgttga	taatccaaat	ggagatggaa	gatgtgtac	atgtatata	1080
tatcttaata	aagactggga	tgccaaggta	agtgaggta	tacttcgaat	ttttccagaa	1140
ggccaaagccc	agtttgcgtg	cattgaaacc	aaatttgata	gactgtgtt	tttctggct	1200

gacegtcgca accctcatga agtacaacca gcatatgcta caaggtacgc aataactgtt	1260
tggtatttt atgcagatga gagagcacga gctaaagtaa aatatctaac aggtaaaaaa	1320
ggtgtgaggg ttgaactcaa taaaacctca gattcggtcg gttaagacgt cttcttagac	1380
ctttgatcca gcaatacccc acttcaccta caatattgtt aactatttg taacttgtga	1440
atacgaataa atggataaa gaaaaataga caaccagtcc gcattttaat aaggaaacag	1500
aaacaacttt ttgtgttgc tcaaacagaa gattttact gctgtgactt tgactgtcat	1560
gatcaacttc aaatctgtt ttgttacag gaggaagata agctactaat tgaaaatgg	1620
ttttacatct ggatatgaaa taagtgcctt gtgttagattt tttttcatc ttatatttg	1680
ccagatctgt tatcttagtgc agttcatttc atctctccct tttttatatac aagtttgaat	1740
ttggataat tttctatata taggttacaat ttatctaaac tgaattgaga aaaaattaca	1800
gtattattcc tcaaaataac atcaatctat ttttgaac ctgttcatatc tattaaat	1860
tgccctaaaaa gacctcttaa taatgattgt tgccagtgc tgatgattaa ttttattta	1920
cttaaaataa gaaaaggagc actttaatta caactgaaaa atcagattgt tttgtatcc	1980
ttccttacac taatttgaac tgtaaaagat tgctgtttt ttttgcatac tgtcaataac	2040
gaaaacctaataat tgtaaaacag tcaccatata ctaccaataa ctttttagta atgttttaca	2100
agggaaaaaaga cacaagaaga gtttaatattt tttgtttt tttgtttt ttgagacagt	2160
cttgctctgt tacccaggct ggagggggagt ggtgcattct tggctactg caacccgc	2220
cttccaggtt caagcaatcc tcccacccca gctccccac tagctggac tgcaggcaca	2280
caccaccatg cctgactaat tttgtatgt ttagtagaga cggggttttt ccatgttgcc	2340
taggctgggg tttaagttaa atttttaaa aaactaaagt gactggact aagtgaactt	2400
gagattatcc tcaagttcaaa gttccataaga taaggctttt cttaaagttt caggtgtatg	2460
tatcctctatg atgttagacaa taatgtccca tttctaaagtc ttttctttt gtttctccct	2520
aaatttatttttacttccaaa tttgtgtta tgttttttt ctaataactgt gatctatctg	2580
atctgcagac aagaaccccttgc tttctgttgc agagcatcaa ggggagatta tgtacacatt	2640
gaaactgaaag tttgtgttgc ctgacggaaat gtgcagtaac tttctcata gtttgcattt	2700
cattttccatg atgtgtatgcc agccttctta cttgtactga aagatgttta gcttagaaaa	2760
aaacaaaaca gatgcaaaat cagataattt tttttttt catgggtttt ctttattttact	2820
ttttaaacaa gggaaaggaaat attagaaaat cacacaaggc ctcacataca tgtttatttaa	2880
agaatgttgcattt gggacggatg ttttagactt cactttctta ggcttttttag cccaaaccta	2940
aagggtgttgc tccatattttt gctgttgcattt tgggtgttgc accttgcctt ctttaggtttt	3000
ctatctctgt ctttgatctt cttgcacaaa tttgtgttgcata cagaaattttt ctgttatattt	3060

caacttaaga catttttagc atctgtatag ttgttattcaa tttgagacct ttttatggg	3120
aagctcagta atttttatta aaagattgcc attgttattc atgtaaaaca tgaaaaaaa	3180
atttgttagt gaagccaaca gtggacttag gatgggattt aatgttcagt atagtgtatc	3240
cacttaggag aatttgcagg agaaagtgt agtttattgt ttttccctcg cccatattca	3300
gttttgttct acttccccc ctteccctca gatgataaca tcacatctc acagtaagt	3360
cctctgcccag cccaaacccag gagcgcaagt tgtctttgcc atctggctca tagtacatg	3420
cgccgcgtta ggccacaact caaaagcatt atcttttta gggtagtag aaattgtttt	3480
atgttgatgg gagggttggt tgattgtcaa aatgtacagc cacagcctt taatttggga	3540
gccccctgttg tcattcaaat gtgtacctct acagttgtaa aaagtattag attctactat	3600
ctgtgggttg tgcttgccag acaggctta aattgtatat ttttggaaa agtttatata	3660
ctctctttagg aatcattgtg aaaagatcaa gaaatcagga tggccattta ttaaatatcc	3720
attcatttca tgtagtggg actattaact tgtcaccaag caggactcta ttcaaaacaa	3780
aatttaaacat tgtttgcgc ctatatgtgt ttaatctgg ttaaagataa agcttcataa	3840
tgcgtttttt attcaacaca ttaaccagct gtaaaacaca gacctttatc aagagtaggc	3900
aaagattttc aggattcata tacagataga ctataaagtc atgtaatttgc aaaaagcgtg	3960
tttcattatg aaagagctct caagttgtt gttaaagctaa tctaattaaa aagatgtata	4020
aatgttggttggaaacaaaaaaaaaaaa	4045

<210> 572
<211> 1575
<212> DNA
<213> Homo sapiens

<400> 572	
gagagaggaa gcttgaagcc aatatggagt ccgtcagttt ctccgcgtgt gctgtcagga	60
ccggagacat ggagtcccg cgggacctga gcttggtgc tgagcggctt cagagacgcg	120
aacaagaacg gcagctggaa gttgaaggc gaaaaaaaaa gcccggaaac caggaggtag	180
agaaggagaa cagccacttt ttcgtcgcca ctttgcgtcg ggagcggcg gcccgtggaaag	240
agcttctggaa gcccggcgag tcgggtcgac ggcttggagga ggcggccctt cggctccagg	300
ggctgcagaa actaatcaac gactcagttt ttttccctgc cgttacac cttggggcagg	360
gacaagaggc gctggcgccg ctgcaggccg ctttggccga gcccggccgg gggctgcagc	420
ccaaagaagcg ttctgcgttc aagacccggg gaaaggatgc tgcttcgtct accaaagttag	480
acgcggctcc tggcatcccc ccggcagttt aaagcataca ggactccccg ctggccaaaga	540
aggcggaaagg agacccctggc cccagctggg tctgcgggtt ctccaaacctg gagtccaaag	600

tcttgagaaa gagagccagc gagttgcacc agcgcgacgt tctttgacc gaactgagca	660
actgcacggt cagactgtat gaaaaatccca acaccctcgcg cttaaccagg gcccacagct	720
gcaagctgct ctgceggccg gtgtctacct ctgttttccct ggaggactgc agtgactcg	780
tgctggcagt ggcctgcca cagctccgca tacacagttac gaaagacacc cgcatcttcc	840
tgcagggtac cagcaggccc atcggtgggg actcgactgg gatccagttc gccccttaca	900
cctggagcta cccggagatc gacaaggact tcgagagctc tggttttagat aggagcaaaa	960
ataactggaa cgatgttgc gattttact ggctggcccg ggatatggcc tccccaaact	1020
ggagtattct tcctgaagag gagcgaataa tccagtgggg ctaagcagggt gtcactctgt	1080
tcttcactcc taccaaatac ttccacgtt ggactttccc ctttattggg tctcgaagtt	1140
tacttattgt cacactgtgt atgttttcg cattttaaagg ctagagattt taatgggctc	1200
ctacttgtaa ttccattaa attcgttaaca ggtataacac taaagcattt ttgtctat	1260
cgtcatgcct ttgagactga gtcttactcc gtcggcccg gttgtggcgc gctgggatta	1320
caggcgcgcg ccaccacgcg aactcgattt tttagtagag acggggtttcc gccatgttgt	1380
ccgggctgtc ctgcgaactcc tgacccctagg tgatccaccc gttcagttt cccaaagtgc	1440
ttgcattaca ggegtgagcc accacgcag ggctttttt atttattttt accacaata	1500
ttttaaagcag taagggggaa ggagggtgtatattgtt tttttttttt ttgtataactt	1560
gaaacatcac ggtgc	1575

<210> 573
<211> 995
<212> DNA
<213> Homo sapiens

<400> 573 tttgggggtg ataaaaagggg gggccaaaaa aacggggggag cggagatttt tttggaaat	60
ttttttttttt ttcccttggatatatgacca gcagtggat tgctggatct tacgtggaa	120
ttcccaaaga tttttttttttt ttcccttggatatatgacca gcagtggat tgctggatct tacgtggaa	180
ttcccaaaga tttttttttttt ttcccttggatatatgacca gcagtggat tgctggatct tacgtggaa	240
ttcccaaaga tttttttttttt ttcccttggatatatgacca gcagtggat tgctggatct tacgtggaa	300
ttcccaaaga tttttttttttt ttcccttggatatatgacca gcagtggat tgctggatct tacgtggaa	360
ttcccaaaga tttttttttttt ttcccttggatatatgacca gcagtggat tgctggatct tacgtggaa	420
ttcccaaaga tttttttttttt ttcccttggatatatgacca gcagtggat tgctggatct tacgtggaa	480
ttcccaaaga tttttttttttt ttcccttggatatatgacca gcagtggat tgctggatct tacgtggaa	540
ttcccaaaga tttttttttttt ttcccttggatatatgacca gcagtggat tgctggatct tacgtggaa	600

tgcttggagt gtaacagcag caaaactgcgc gggctgaagc ggaagtggat ccgcgtctca	660
gcccaggcga ccgtcttgca tctgaagaag ttcatcgcca aaaaactcaa cctttcatcc	720
ttaaacgagc tggacatttt atgcaacgag gagatctgg gcaaggacc acaactcaag	780
ttcgtggttg tcacttagtg gagattcaag aaggcgccgc tcctgctgca ctacagacc	840
aagatggact tgctgtgaat ggtgccacac agcgccccaca gactgggctc gcacccttgg	900
gtgctcccg cgcccgccgt taagaacatt gcctctgggt gtcatgtgga ccagacttct	960
aatagagaa tatttataac ttttgtatga gagag	995

<210> 574
<211> 3367
<212> DNA
<213> Homo sapiens

<400> 574 ccttctggca ctttctatgg gaggattctc gtaacagcag cacaccaact gaaaagccca aactgctcg tcttggtcaa aattatgaac tgcttatcta tgaatttaat ttgaaagatg gaagatgtgta tgcaaccatt ttgtatagct gttagtaggaa ggcattgcaa aagcttattg acgatcaaga tatcagtatt tccttattgt ctttggaaat cctgtcattt cacaataaca catcattact gttcatcaac aaatgtgtca tcctacatat tatatttcct gaaagagatg ctgcaatttag agtactcaac tggcacac tttccctggc tgcacaggca gttggacatga ttatttgacac gcagctctgc agaggaattc tttttgtttt gagtagttt ggctggatct acattttga tggatggat ggtacatatg tagctcatgt ggattttagca ctgcacaaag aagacatgtg taatgagcag caacaggcgc cagccaaat ttcttcattt acttcactga aaggttctca agacccctgat gttcagtgta ttgcagtc ctccaaactcc gcagttgctc ttaacttaaa ttgttatttc aggcaacacc caggacacct actgtgtgaa agaataactag aagatcttcc tattcaagga ccttaaggcgc tagatgaaga tgatctgtt aactctgcct acaacatgaa actggccaaag ttttccttcc aaattgtatg gtcttggaaa gcccagctat catcattgaa tggaaacaata aagaactcca aactggaggt ttccctgtt gtcctcatgtt tccaggatata ttgcatttg ggtcacatcg aatctgttgc ccacagtaca agtgtgcaga gtctggccctt catccacacag gacataatgc atggcataa taatgttcta cagaaagatc atgccaagac cagtgtatcca ggaagatcat gggaaataat gcacatcagt gaacaagagg aacccataga gcttaaatgt gtgtctgtga caggattcac tgcaactgttt acttgggaag tggaaaggat gggctataacc attaccctct gggatttgaa gaccaggcgc atgcagtgtt ttcccttgg cacaaggatgtt attcctgttag acagtagtgg agaccagcag ctgtgcttt	60 120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080 1140 1200
--	---

ttttgacaga gaatggactc tctctgattt tgtttggtt gactcaagaa gagtttttaa	1260
acagactcat gatccatggaa agtgccagca ctgtggcac tctttgtcat ctcataatggct	1320
ggggaaagggtg ctcaattccc atacatgcac tagagggccgg gatagaaaat cgtcagttgg	1380
acacagtaaa ttcttttttg aagagcaagg aaaatctttt taatccatcc tc当地atctt	1440
ctgtatctga tcagtttgat cacttgcattt cccatttata tt当地agaaat gtggaaagagc	1500
tgataccaggc attggattta ctttgcctgg caatttagaga aagtttattct gaacccaaaa	1560
gcaaacactt ttccagaaca ttgc当地taatc ttacactgtc ttcccttaac aaccaaataa	1620
aggagctttt cattcacaact gaagaactag atgaacatct gcaaaaaggaa gtgaacattt	1680
tgacttagcta cattaatgaa ct当地gaacct tc当地ataaa tt当地ccctgg aagctaaacag	1740
atgttataga tgaatatgat gtacatgaaat atgtccccaa agtaaaggag agcaatataat	1800
ggaagaaaact cagcttttaga gaagtttattt ccagcgccat tt当地acaac aaaataccag	1860
aggcacagac ttcttcaggc attgatagtc attctgc当地ca aaaacttggag gagcttattt	1920
gcataggcct aaatggc当地 tttgacaatt taaaaaaagaa caatataaag gaaggcctctg	1980
aacttttggaa gaatatgggg tt当地atgtaa aaggccaatt gctcaagatc tgcttctata	2040
caactaataa aaatatacgt gacttttgg tt当地aaatttt aaaagaaaaa aattttttt	2100
ctgaaaaaga gaaaagaact atagacttcg tgc当地caagt tgagaagctt tattttggac	2160
atttccaaga aaatatgcaa atccagtc当地 ttcccaggta ctggataaaag gaacaagatt	2220
tttcaaggcac aagtctgtttt tgactcattt cctgaaatattt gatttggaaatgatattaa	2280
caaacaggac catagaatttgg tttt当地aaatgg ggctctgtgg tgggatcaac taacacaaga	2340
atccatccctt ctccccaggaa taagtccaga agaatacataaa tc当地attccc ctgaaggccct	2400
ctggagatac ctcacagtc当地 gccatgattt gttt当地acattt atctt当地tggatggaaattt	2460
tcaaccaggc catagttatgg ct当地acttca gc当地acaaa tt当地cccttc tgactgttga	2520
ttt当地ttaac cagaataactt cctgtaacaa ctacatgagg aatgaaattt tagataagct	2580
ggccaggaaat ggggtttttt tggcatctga actgaaagac tt当地atgtcttccatccatccat	2640
actgagccgtt attggagggtg taatacaggat tacccttccctt gttcaaaaact acaagaccaa	2700
agaaggttgg gattttccattt ct当地attcat tctcttattgt tt当地ggcaca gtctgc当地ca	2760
tctt当地ttat gtctt当地cttgc当地tactgttacaa acttagtctt gaaaatgtcttccatccatccat	2820
aaaaaaaaagag tt当地atgtaa cacacccttgg tt当地ggaaattt tt当地gttcaatccatccat	2880
tgccagtaac ttaacagatc ccaaaactgtatc ttccaggctt acgcttgc当地aa atgctc当地at	2940
ttt当地gatccctt accaatcagg ccagttgtaaat cagttatgtca tt当地ggaggac atacccttccat	3000

ggcccttget	actacaatgt	attctcctgg	gggtgtcagt	caggttgttc	agaatgaaga	3060
aaatggaaaac	tgtttgaaga	aagtggatcc	ccagcttattg	aagatggcat	taactcctta	3120
ccccaaagcta	aaaactgctc	tctteccaca	gtgcactct	ccttagtgtcc	tgccatctga	3180
tattacaatc	taccaccta	ttcagtcatt	atcacccctt	gatcctagca	gattgtttgg	3240
ctggcagtc	gctaacacac	tagctatagg	agatgcatgg	agtcatctcc	cacatttctc	3300
tagccctgac	ctggtaata	aatatgctat	agtggAACGT	ctgaattttg	cttattattt	3360
acataaa						3367

<210> 575
<211> 1615
<212> DNA
<213> Homo sapiens

<400>	575					
gggaggaggc	aggcaggc	ctctgggacg	gggctggacg	gcttgttgac	ggaaacgagc	60
ccttgcacgt	gtggcccgga	agtggagcgg	ctgtgcagtc	gcccgtccgg	cagtggcagc	120
ggaggcctgt	gtttgcggcc	tccggcaagc	gactgagatg	gcgagcgcac	ctgcacctgc	180
agccgcagtc	cccacccctgg	cttcgccttt	ggagcagctc	cgccacttgg	cgaggaggct	240
gcccgttgc	ctgcctcgg	tgccggcgg	cgaagcccg	gagaccaccc	aggagtttac	300
tcgagagatg	ttctggagaa	gactcaatga	ggcagctgt	actgtgtcaa	gggaagccac	360
gactctgacc	atagtcttct	ctcagcttcc	actgccgtc	ccacaggaaa	cccagaagtt	420
ctgtgaacaa	gtccatgtct	ccatcaaggc	atttattgc	gtgtactatt	tgcttccaaa	480
ggatcagggg	atcacccctga	gaaagctgtt	acggggcgcc	accctggaca	tcgtggatgg	540
catggctcag	ctcatggaaag	tactttccgt	cactccaact	cagagccctg	agaacaatga	600
ccttatttcc	tacaacagtg	tctgggttgc	gtgccagcag	atgcctcaga	taccaagaga	660
taacaaagct	gcagctcttt	tgatgctgac	caagaatgt	gattttgta	aggatgcaca	720
tgaagaaatg	gagcaggctg	tggaagaatg	tgacccttac	tctggcctct	tgaatgatac	780
tgaggagaac	aactctgaca	accacaatca	tgaggatgt	gtgtgggg	ttcccaagcaa	840
tcaggacttg	tattggctcag	aggacgatca	agagctcata	atccccatgcc	ttgcgctgg	900
gagagcatcc	aaagcctgcc	tgaagaaaat	tcggatgtta	gtggcagaga	atggaaagaa	960
ggatcagggt	gcacagatgg	ctgacattgt	ggatatttct	gatgaatca	gccctagtgt	1020
ggatgatgg	gtcttgagca	tatatccacc	tatgtgtcac	ctgaccgtgc	gaatcaattc	1080
tgcgaaacctt	gtatctgttt	taaagaaggc	acttggaaatt	acaaaagcaa	gtcatgtgac	1140
ccctcagcca	gaagatagtt	ggatccctt	acttattaat	gccattgatc	attgcatgaa	1200

tagaatcaag gagetcactc agagtgaact tgaattatga ctttcaggc tcatttgcac	1260
tetcttcccc ttcatacgtc atggtcaggc tctgataacct gcttttaaaa tggagctaga	1320
atgttgtctg gattgaaagg gagtgccatat ctatatttag caagagacac tattacaaa	1380
gatttgttgg taggccatag tgacacccat ttataaacca tatgcgtata ttttctgtg	1440
ctatataatga aaaataattt catgatttct cattccgtag tcatttctca gagattccta	1500
ggaaagctgc cttatctct ttttgcgtat aagtatgtt ttttcatgtt aaagatgtt	1560
atggctcaaa taatgtcta acttgccagt gattaaaaaa aaaaaaaaaa aaaaa	1615

<210> 576
<211> 2882
<212> DNA
<213> Homo sapiens

<400> 576	
ctgcaggtaa cggatcagcg ctgcggggat ccttcaatc atcaggaaca gcaacagggtt	60
tgccagggtca ggctggggac cctcgcccat taacttttc ttctccctgt ttctttctct	120
taggttgagg gaaactgagt tccagggttag gctccagagt gaagaggaa gaaacatgat	180
tctcaaggcc aggtctggac aagtgtgaac accttggcc tgcgaattca gccccctct	240
tcctttctct ggtcaaaaggc tagacttgcg ggagcttgcg tttgaaggga cagcccagaa	300
ggcatcgctc gcaactcccca tacaggtact tctgggtctg tggactggc gcagggttct	360
tctcccaaaag ctgcaggcac tgaggctgag gcagtgtcag gccggcgca gggcagttgg	420
tgcaatcggtt ctgggaagga tagtggccgg cctgaattct ctgtggcaag ggaggggagc	480
ccaagtggga ggccccctgg ggacaccgg gaccagggtc gctactgtc ctcccccagg	540
aggccccctca ggggctacat tggctggcag gggctgagca gggctgagcc tggctggctt	600
cgacccgggg cgactccggg catccggac agcttctct cgctgccacc tcggccagtc	660
agaccccgag acacatgtca ctacccctc acgcctccca agccaggagc ctggagttcc	720
ggctctggcc tacctccggc agcgcttca ggcgcacgtc cgggctggc ggcggccgggg	780
ccccccccctt agggtctgagg cgccgggggc gggggctggg ggctgctggg ggcggggcgg	840
gcggggggcc tccggggccc ctccccccgc cccctgaegt cageccccgg cagcctcgag	900
ctgtctcaatt ggttctcgcc ctccggccaa gcatggggct tccctggctg gtctgcgcct	960
tcttgcgtcg cgcctctgtc tgctgtccctc gctgtcgccgg tgatgtcgct tcgctcgac	1020
ggccggcgcc cccggtaggg gtctcgccgg gagegtgcac gggagccagag ccagggcgc	1080
ggccgggtcgg ggcgttgcgt ctggaggac gagecttctc cctgggtccc cgatccccgg	1140
gccttgcgc gcgagcaact ttctttgc gccagttgc agccggatt cttagatgtac	1200

ccggggacag cactcgaaag	gcggggagga ggctgttct	ggaaacgaga aggggtggag	1260
ctcagccttt cggggtgctg	gggggtgggt ggtccctgag	gtgctcaactc tgggggccc	1320
caattgaagc cggcaggag	gwgactgg ggcgcac	caaagctga attccgcgc	1380
cggtgttgc tggaaaaggc	agcttccttc gctggagggg	gtgcggcac ccaccccttc	1440
cccccttcgc ctggcatca	cggaggctg gaggtgagcg	agagcggag gttcggggc	1500
tcccggccga gctggcgtt	ggcaggggtt gcggggcggt	gtgggtgcgc tccgcctcc	1560
ccagtgatg ggatcatagg	ggacagagat gaggatgga	ggattcccat actggacgc	1620
cgctggctta ttttggggac	cacattcagg tggaaagtgc	gcggggcac ctggagcgt	1680
ttctccggat ccgcctggta	gcagggtgt ctccggtccc	gctgccttg tatggccgc	1740
gcagcggtgt cgctgtttc	tcttggctcc catccggcg	tcccgctgtc cggctgggga	1800
aggggagggc taggcaatac	cagtcgtcg gcctcatgcc	cagtgcac acatgtctgg	1860
ggtattccag ctactgcctc	ccagggctac ttatattctg	ggaaagggtt aaatcgggt	1920
ccacagttgc agccggtcca	gctccaccct gcctgtct	tctagtcgt ggaggagtc	1980
gggtctgag gctctgggtt	ggagacccca cttccacct	gcctccctt tccgagagcc	2040
aaggtaaca cccaggactc	ccaggtccc aggcatgg	tgtcgagtga catcacctcc	2100
tcacagggtt ggcagcacgc	tggcaccact gacgtca	ctgcccactg cttggccctt	2160
gcctgtaccc ctggggaga	ctctgaccc tccatcccta	ccaggtacct aggggtgggt	2220
ccgcgggtgt gtgcggagt	tcatggcg tgca	gctgtggagca tgagacccga	2280
acttccgcca gagttagccc	gctggggagt gaggcagg	atttggagg caagagggtt	2340
agagcgtgg tgcgttctg	gcgggtgtga cacaaggc	ctgttggccc cagcctggca	2400
catcgttgc atccccacac	tctgagctca cccggagagg	agggggcttg gaaggaaagg	2460
cgttcttgc gccccgagcc	tagttcccc ttctgtcccc	tctacagctt cagctggagc	2520
tgcgtgtgt cagtcgtcg	tcaatctctg cttggctcca	aggacctggg atctcctgg	2580
acggggagag ggctggccca	ggtgggggtgg cgggtcg	gggggttaga gcgttcagag	2640
acagggccct ctgcagaccc	tctgagtggc agaaaaaaca	gctcgacgag cgctgcgagg	2700
ggagggccgg acacgacgcg	gacgtgacac agcctggcc	cegcctccct cccccaggtg	2760
tgccccggaga ggctgagcag	cctgcgcctg agctggtgg	ggtggaaagtgc ggcagcacag	2820
ccctctgaa gtgcggccctc	tcccagtc aaggcaac	cagccatgtc gactggttt	2880
ct			2882

<210> 577
<211> 2733

<212> DNA
<213> Homo sapiens

<400> 577 ctcgcgaggc cggtctaggcc cgaatgtcgtagccgtggg gaaagatggc ggaaaattta 60 aaaggctgcacgtgttttgc caagtcttct tggaaatcagc tgcaggacct gtgcgcctg 120 gccaagctct cctgcctgc cctcggttac tctaagagga acctctatga ctttgaagtc 180 gagtacctgt gcgttaccaa gaagatccgc gaacaggaa attaccttgtt gaaatggcgt 240 ggatcccg actcagagag cacctgggag ccacggcaga atctcaagt tggtcgatc 300 ctcaagcagt tccacaagga cttagaaagg gagtgcctcc ggccgcacca ccggctaaag 360 accccccggc acctggaccc aagcttgccc aactacctgg tgcagaaggc caagcagagg 420 cggccgtcc gtgcgtgggag gcaggagctc aatggcaagc gcagccatct gggacgcata 480 actgttagaga atgaggtggc cttggacggc cttccgcggg cttcggtgtt catcaatgag 540 taccgtgttg gtgagggcat caccctcaac caggtggctg tgggtgcga gtgccaggac 600 tgtctgtggg caccctactgg aggctgtgc cggggggcgt cactgcacaa gtttgcctac 660 aatgaccagg gccagggtgcg gcttcgagcc gggctgccc tctacgagtg caactccgc 720 tgccgtgcg gctatgactg cccaaatcgt tggtacaga agggatccg atatgacctc 780 tgcacatcttcc ggacggatga tgggcgtggc tggggcgtcc gcacccctggaa gaagatcg 840 aagaacagct tcgtcatggatgacgttgggag gagatcatta cctcagagga ggcagagcgg 900 cggggccaga tctacgaccg tcagggcgcc acctacccctt tgacccctggaa ctacgtggag 960 gacgtgtaca cctgtggatgc cgcctactat ggacacatct cccactttgtt caaccacagt 1020 tgtgacccca acctgcagggtt gtaaacatgc ttcatagaca accttgacga gcccgtgc 1080 cgcacatcgctt tctttgcac aagaaccatc cggggcaggcg aggagctcac ctttattac 1140 aacatcgacaaatggacccgt ggacatggag agcaccgc tggactccaa ctttggcctt 1200 gctgggtcc ctgggtcccc taagaagcgg gtccgtattt aatgcacgttg tggacttgag 1260 tccctggccca aataccctttt ctggccctta aagatgttgc gccagactga ctggggggcc 1320 ctgaaacatcgacaaatggacccgt ggacatggag agcaccgc tggactccaa ctttggcctt 1380 cgcctgcctc cacctgcctcc cacctgcgtcc tacctgcgtct acgttcagggtt ctgtggcctt 1440 ggttggggcc gactcccgatggatgacgttgggatgc tggactccaa cccagccca gaatataattt 1500 tacaacccacccatcgacaaatggacccgt ggacatggag agcaccgc tggactccaa ctttggcctt 1560 attcatggcc tattaaggag gtccaaagggg tgagtccaa cccagccca gaatataattt 1620 gttttgttgcac ctgtttctgc ctggatgttgc aggggtctgc tgcaggccctc cttccctgtt 1680 ccccaaaatgtt atqqqqqaqc aaccccaqaaq caqqcaqaca tcaqaqggca qaqtqccctag 1740

cccgacatga	agctggttcc	ccaaccacag	aaactttgta	ctagtgaaaag	aaagggggtcc	1800
ctggcctacg	ggctgaggct	ggtttctgct	cgtgettaca	gtgtgggtta	gtgtggccc	1860
taagagctgt	agggtctctt	cttcagggtc	gcataatctga	gaagtggatg	cccacatgcc	1920
acttggaaagg	aagtgggtgt	ccatgggcca	ctgagcagtg	agaggaaggc	agtgcagage	1980
tggccagecc	tggaggttagg	ctgggaccaa	gctctgctt	cacagtgcag	tgaagggtacc	2040
tagggctctt	gggagctctg	cggttgcctag	gggcctgtac	ctgggggtgc	atgaccgctg	2100
acaccactca	gagctggAAC	caagatctag	atagtcgtA	gatAGCactT	aggacaagaa	2160
tgtgcattga	tgggggtggt	atgagggtcc	aggcactagg	taggcaccc	ggtccacgtg	2220
gattgtctca	gggaagcctt	aaaaaccacg	gagggtggatg	ccaggaaagg	gccccatgtgg	2280
cagaaggcaa	agtacaggcc	aagaattggg	gggggggggg	atggcttccc	cactatggga	2340
tgacgaggcg	agagggaaagc	ccttgcgtcc	tgccattccc	agacccccagc	cctttgtgt	2400
caccctgggt	ccactggctt	caaaagtca	ctgcctacaa	atgtacaaaa	ggcgaagggtt	2460
ctgatggctg	ccttgcgtct	tgctccccc	ccccctgtga	ggacttctct	aggaagtct	2520
tcctgactac	ctgtgcctcag	agtgccttca	catgagactg	tatgcctgc	tatcagatgc	2580
cagatctatg	tgtctgtctg	tgtgtccatc	ccgcggcccc	cccagactaa	cctccaggca	2640
tggactgaat	ctgggttcc	tcttgtacac	ccctcaaccc	tatgcagct	ggagtgggca	2700
tcaataaaat	gaactgtcgA	ctgaaaaaaaa	aaa			2733

<210>	578					
<211>	710					
<212>	DNA					
<213>	Homo sapiens					
<400>	578					
gagaggtgga	ggcgcttta	aagggtgagag	cgcgaggcg	gtgcggggct	gtctcccgcc	60
tgggactcgc	tgcgcgtccc	ggtgctaattg	ttttatgaga	gggcggggga	agccgtgcct	120
cctcgccggac	taagaaaaaa	atccccgggg	gctgttttgc	gggtggccgg	agaaacggccc	180
tcagecccttt	gcgcctctaa	ccctcttgc	ctgagctca	gtgggcgcgg	tgcccgttat	240
tccgccttgc	gggaggtgt	tggactgtat	gtaggagct	cggtgggtga	tttctcggggt	300
ttctggcccttgc	tccagaccct	tgtattgtt	ttctcggtgc	agagctcttt	tgggttctgg	360
gggtttccgt	cgtctgcgc	gcgtcategc	gaagcttggc	ctgagggtcc	ggtttcttag	420
ctactgtgc	cctccctcttgc	ggaggccagag	tgacggacta	gtgggctgc	gggcgcgtggg	480
tccctgcgtc	ccgccaaaga	ggtttgtaat	catgaaagtt	caccccttccg	gggtttaattt	540
cctgagaggtt	tctactccac	tgtctaccac	tcatcttcgc	tgcattaacc	ttcattgtta	600

acggatttta atgaataata tagttatccc ggataccatg ctggcaggat ccactttgcg	660
aaattgtgga ctgttggact gtgattctaa gtggggaaa taggctttag	710
<210> 579	
<211> 287	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (235)..(235)	
<223> n is a, c, g, t or u	
<400> 579	
caccatctcc tgcgctcgc gggggtaggc acgcacgaag aacatccggc tatggcacag	60
ccgcatatgc gcgcacctca cgcgtcggt cagccggcc agcaccacga cctcatggct	120
ccagtcgaac tggtaagect cgcccggtc aaagctcgcg ggcacgaacg cggtcgcccgt	180
gcggccccact tccctcgcgct gccagcggcg ggcatggcg cgaacggtat catanccgcc	240
ctcgatccct tgcgccccca gcgctcga caggcggatc agcgtca	287
<210> 580	
<211> 2693	
<212> DNA	
<213> Homo sapiens	
<400> 580	
cgaaaaaaga gggaaagagt attaaagacc atttctggct gggcagggca ctctcagcag	60
ctcaactgcc cagcgtgacc agtggccacc tctgcgtgt cttccacaac ctggtcttga	120
ctcgtctgtc gaacaaatcc tctgacctca ggcggctgt gaacgtagtt cctgagagat	180
agcaaacatg cccaacatgt agccgcatac tctgctggag ctgttcaaca gcatgccac	240
acaaggggag ctcgtaaagg ccctcaaagc gggaaatgcg tcaaaggatg aaattgatcc	300
tgcagtaaaag atgttggtgt cattaaaaat gagctacaaa gctgccgcgg gggaggatta	360
caaggctgac tgtccctccag ggaacccagc acctaccagt aatcatggcc cagatgccac	420
agaagctgaa gaggattttg tggaccatcg gacagtacag acaagcgtg caaaaggcat	480
agactacgt aagctcatttgc ttccgtttgg aagtagttaaa attgacaaag agctaataaa	540
ccgaatagag agagccaccc gccaaagacc acaccacttc ctgcgcagag gcatcttctt	600
ctcacacaga gatatgaatc aggttcttgc tgcctatgaa aataagaagc cattttatct	660
gtacacgggc cggggccctt cttctgaagc aatgcgtatgtt ggtcacctca ttccatattat	720
tttcacaaag tggctccagg atgtatattaa cgtgccttgc gtcatccaga tgacggatgaa	780

cgagaaggat ctgttggaaagg acctgaccct ggaccaggcc tatggcgtat ctgttggaaa
tgccaaggac atcatcgct gtggcttga catcaacaag actttcatat tctctgacact 900
ggactacatg gggatgagct caggtttcta caaaaatgtg tgaaagattt aaaaagcatgt 960
taccttcaac caagtggaaag gcattttcggtt cttcaactgac agcgtactgca ttgggaaagat 1020
cagttttctt gcccattccagg ctgctccctc cttcagcaac tcattcccac agatcttcgg 1080
agacaggacg gatatccagt gccttatccc atgtgcattt gaccaggatc cttacttttag 1140
aatgacaagg gacgtcgccc ccaggatcggtt ctatccaaaa ccagccctgt tgcaactccac 1200
cttcttccca gcccctgcagg gcccctcagac caaaaatgtg gccagcgacc caaactccctc 1260
catcttcctc accgcacacgg ccaaggacgat caaaaaccaag gtcaataaagc atgcgttttc 1320
tggagggaga gacaccatcg aggagcacag cgacgtttggg ggcaactgtg atgtggacgt 1380
gtctttcatg tacctgacact tcttcctcga ggacgacgac aagctcgagc agatcaggaa 1440
ggattacacc agcggagccca tgctcaccgg tgtagctcaag aaggactca tagaggttct 1500
gcagccccctt atcgcagacg accaggccccg ggcacaggag gtcaacggatg agatagtggaa 1560
agagttcatg actccccggg agctgtccctt cgactttcag tagcactcgat tttacatatg 1620
cttataaaag aagtgtatgt tcaactaatgt atcaataatc ccagccccagt caaaagcaccg 1680
ccacccgttag gcttctgtct catggtaatt actgggcttgc gcctctgtaa gcctgtgtat 1740
gttatcaata ctgtttcttc ctgtgagttc cattatttctt atctctttagt ggcaaaagcat 1800
tgtgggtaat tggtgctggc taacatttgca tggctggata gagaaggatcca gctgtgagtc 1860
tctccccaaa gcagccccac agtggaggctt tcggctggaa gtccatgggc caccctgttc 1920
ttgtccatgg aggacttccg aggggtccaa gtatactttt aagacccact ctgtttaaaa 1980
atatatatttcatgatgtatgcg tataatggat tgaaatgtca ttatgttaac cttagaaatgt 2040
ctttgaaata ttgtatgtggg gaggttttatt gaggcacaaga tggatattcag cccatggccc 2100
ctccccaaaaa gaaattgtata agtaaaagct tcgttataaca ttgtactaag aaatcacccca 2160
gctttaaagc tgcttttaac aatgaaggat gaacagaggat cggcaatttt gattaaatata 2220
agacttgggg gtgaaacttt ccagtttact gaactccaga ccatgtcatgt agtccactcc 2280
agaaatcatg ctgcgttccc ttggcacacc agtggcttcc tcggcaatgtc ccctagaccc 2340
tctgtcttcg agagtcagggtt ggcttccctt cctgactgtg tccgatggca aggactctgt 2400
gcctcccgac atgcttcatt ttgacccttg gctgcgttgg aagtcgacac agagcgtgtc 2460
cctggctgtg tcttgacgg gtggacttag ctggagaa agtgcaggca gcaaggccctcg 2520
aggccctcactc agatgtcttag cggccctca tttcatcagc cagcatgtgc aggccctggaa 2580
gagcaaaagcc aataatctcagg gaaatcccttq gttgtatgtat ctggatgttc tctggaggac 2640

tctgccctcc	tgtcacccag	tagagtaaat	aaacttcctt	ggctcctaaa	aaa	2693
<210>	581					
<211>	4633					
<212>	DNA					
<213>	Homo sapiens					
<400>	581					
tcacggctcg	agaagacgc	agaaggggag	aagaagcca	gtgcgtctct	ggcgccagg	60
gccagtggg	ctcgaggca	caggcacccc	gcgacactcc	aggtcccccg	accacacgtcc	120
ctggcagccc	cgattatita	cagecctcagc	agagcacggg	gcggggggcag	agggggccgc	180
ccgggagggc	tgctacttct	taaaacctct	gcgggctgt	tagtcacage	cccccttgc	240
ttggtgtgtc	cttcgctcgc	tccctccctc	cgtcttaggt	cactgtttc	aacctcgaat	300
aaaaactgca	gccaacttcc	gaggcagcc	cattgcccag	cgagacccag	cctctgcccag	360
gttcggctcg	ccatcctcg	cccgcttcc	gcggggccct	gccccgcgc	cagggtatct	420
ccagcteccc	tcgcccgcgc	cctccgttcg	ctccggacac	catggacaag	ttttgggtgc	480
acgcagcctg	gggactctgc	ctcgtgcgc	tgagcctggc	gcagatcgat	ttgaataataa	540
cctgcccgtt	tgcaagggtta	ttccacgtgg	agaaaaatgg	tcgctacagc	atctctcgga	600
cgaggggccgc	tgacccctgc	aaggcttca	atagcacett	gcccacaatg	gcccagatgg	660
agaaaagctct	gagcatcgga	tttgagacct	gcaggtatgg	tttcatalogaa	gggcacgtgg	720
tgatcccccg	gatccacccc	aactccatct	gtgcagaaa	caacacagg	gtgtacatcc	780
tcacatccaa	caccccccag	tatgacacat	attgctcaa	tgcttcagct	ccacctgaag	840
aaaggatgtac	atcagtcaca	gacctgcca	atgccttga	tggaccaatt	accataacta	900
ttgttaaccg	tgatggcacc	cgctatgtcc	agaaaggaga	atacagaacg	aatccctgaag	960
acatctaccc	cagcaaccct	actgatgatg	acgtgagcag	cggtccctcc	agtgaaagga	1020
gcagcacttc	aggaggttatc	atcttttaca	ccttttctac	tgtacacccc	atcccaagcg	1080
aagacagtcc	ctggatcacc	gacagcacag	acagaatccc	tgctaccaga	gaccaagaca	1140
cattccaccc	cagtgggggg	tcctccatcca	ctcatggatc	tgaatcagat	ggacactcac	1200
atgggagtca	agaaggtgga	gcaaacadaa	cctctggtcc	tataaggaca	ccccaaattc	1260
cagaatggct	gatcatcttg	gtatccctct	tggccttggc	tttgatttt	gcagtttgc	1320
ttgcagtcaa	cagtcagaag	aggtgtggc	agaagaaaa	gctagtgtac	aacagtggca	1380
atggagctgt	ggaggacaga	aagccaaagt	gactcaacgg	agggccagc	aagtctcg	1440
aaatgggtca	tttggcgaac	aaggagtctg	cagaaactcc	agaccagttt	atgacagctg	1500
atgagacaag	gaacctgcag	aatgtggaca	tgaagattgg	ggtgtaaacac	ctacaccatt	1560

atcttggaa gaaacaaccc ttggaaacat aaccattaca gggagctggg acacttaaca	1620
gatgcaatgt gctactgatt gtttcattgc gaatctttt tagcataaaa ttttctact	1680
tttttgtttt ttgtgtttt ttctttaaag tcaggccaa ttgtaaaaa cagcattgt	1740
ttctgaaatt agggccaaat taataatcg caagaattt atcggtccag ttcccacttg	1800
gaggccttc atccctcggg tgtgctatgg atggcttcta aaaaaacta cacatatgt	1860
ttcctgtatcg ccaacccat cccaccaggc taaggacatt tcccgagggtt aataggcc	1920
ggtccctggg agggaaattt aatgggtcca ttttgcctt ccatagccta atccctggc	1980
attgtttcc actgagggtt ggggttgggg tgtaactagtt acacatctt aacagacccc	2040
ctctagaaat ttttcagatg ctcttggag acacccaaag ggtgaagcta ttatctgt	2100
gtaaactatt tatctgtt tttgaaatat taaaccctgg atcagtccct tgatcgtat	2160
aatttttaa agttactttg tcagaggcac aaaagggtt aaactgatcc ataataaata	2220
tctgtacttc ttgcatttc accttttgc ctgtgttct tcagttctt aaccagcact	2280
gtctgggtcc ctacaatgt tcaggaagag ctgagaatgg taaggagact cttctaagtc	2340
ttcatctcag agaccctgag ttcccactca gaccactca gc当地atctc atggaaagacc	2400
aaggaggcga gcactgtttt tggtttttgt ttttttttggt acactgtcca	2460
aagggtttcc atccctgtctt ggaatcagag ttggaaagctg aggagcttca gc当地ttaa	2520
tggtttaatg gccacacgtt ctctctgtt aaaggcttgc ccaaagtaca ttaagttgc	2580
atgacacgtt atccctgggg ccctatttca tagaggctgg ccctattagt gatttccaaa	2640
aacaatatgg aagtgcctt tgatgtctt caataagaga agaaggccat ggaaatgaaa	2700
gagatggca aaggggaaagg atgatgccccat gtagatctgg tttgacattt ttatggctgt	2760
atttgttaaac tttaaacacac cagtgctgt tcttgcatttgc gttgctattt aggtgatgtt	2820
aagtgcctgg ggagtcctc aaaaggttaa agggattccc atcattggaa tcttatcacc	2880
agataggcga gttttagacc aaacaagaga gtactggctt tattccttca cctcatat	2940
tctcccaactt ggcaagtcct ttgtggcatt tattcatcg tcagggtgtc cgattggcc	3000
tagaacttcc aaaggctgtct tgcatagaa gccattgcattt ctataagca acggctcc	3060
ttaaatggta tctctttctt gaggtcttca ctaaaagtca ttgttttactt aaacttatgt	3120
gcttaacagg caatgttctt cagaccacaa agcagaaaaa agaagaaaaag ctctctgacta	3180
aatcagggtt gggcttagac agagttgatc tgtagaaat ttttaagga gagatgtcaa	3240
ctttctgtatcg tattccctcgc ctctgttctt ccctgcctac cctctccctt ccctcttcc	3300
ctctcaacttca ccccaacatc ttgaaaaact ttctttcttct tctgtgttcaacatcatttgc	3360

gatccatTTT	cagtggctg	gatttCTTT	tatTTCTTT	tcaacttgaa	agaaaactggaa	3420
cattaggCCA	ctatgtgtg	ttactGCCAC	tagtgttcaa	gtgccttgg	ttttcccAGA	3480
gatTTCCtgg	gtctGCCAGA	gccccAGACA	ggctcactca	agcttttaa	ctgaaaAGCA	3540
acaaggCCACT	ccaggacaAG	gttcaAAATG	gttacaACAG	ccttctacTGT	tcgccccAGG	3600
gagaAAAGGGG	tagtgataca	agtctcatAG	ccagAGATGG	tttccACTC	cttctAGATA	3660
tttCCAAAAA	gaggctgaga	caggaggTTA	tttcaATTt	tatTTTggAA	ttaaataACTT	3720
tttCCCTTT	attactgttg	tagtCCCTCA	cttggatata	cctctgtttt	cacgatAGAA	3780
ataaggGGGG	tctagagCTT	ctattCCttG	gccattgtca	acggagAGCT	ggccaAGTCT	3840
tcacAAACCC	ttgcaacATT	gcctgaAGGT	tatggAAATAA	gatgttatCT	cactCCCTTG	3900
atctcaAGGG	cgttaactCTG	gaagcacAGC	ttgactacAC	gtcattttTA	ccatgtATTt	3960
tcaggtgacc	tgggctaAGT	catttAAACT	gggtcttttAT	aaaagtAAAAA	ggccaACATT	4020
taatttATTT	gcaaaGcaAC	ctaagAGCTA	aagatgttaA	ttttcttgCA	atgttaAAATC	4080
tttgcgtct	cctgaagACT	tccCTTAAAA	ttagctctGA	gtgaaaaATC	aaaagAGACA	4140
aaagacatCT	tCGaatCCAT	atttcaAGCC	tggtagAAATT	ggctttCTA	gcagaACCTT	4200
tccAAAGGT	ttatattGAG	attcataACA	acaccaAGAA	ttgattttGT	agccaACATT	4260
cattcaatac	tgttatATCA	gaggAGTAGG	agagAGGAAA	catttgACTT	atctggAAAA	4320
gcaAAATGTA	cttaAGAAATA	agaataACAT	ggtccATTCA	cctttatGTT	atagatATGT	4380
ctttgtgaa	atcattttGT	tttagtTTTC	aaagaATAGC	ccattgttCA	ttcttGtGCT	4440
gtacaatgac	cactgttATT	gttactttGA	cttttCAGAG	cacaccCTTC	ctctggTTT	4500
tgcataTTA	ttgatggATC	aataataATG	aggAAAGCAT	gatATGTATA	ttgctgAGTT	4560
gaaAGCATT	attggAAAAT	attaaaAGGC	taacattAAA	agactaaAGG	aaacAGAAAAA	4620
aaaaaaaaaa	aaa					4633

<210> 582
<211> 770
<212> DNA
<213> *Homo sapiens*

```
<400> 582
ccaaatgtc ttcttaactct gtcttcccat agtaccaccc aaaaagtgt ccatgctaa 60
gtttttgg ttaaatgaag tagattgtca gaaagacaga aagattctca gtcttttaat 120
acactgtat gcatttgaa atatgtatgtt aattctcaat ttattgcag aattctgcaa 180
acagtggta acattgttta cagatttct gcatgttaat ttgaatcttt aatcatatta 240
aatqcaaat actcttggqa aqgataatqaa ttctttaac ttgttaactqaa aacatccac 300
```

acatTTTc atatgtgcgt tggtaaatt acttacctga aaagaacttt ttgtacggta 360
cagcaCTTgg ctgggtaat actcaccaac ttggagaagg ttggTctctg ctcttcgtta 420
tacTTTTat gaggcagtat cacttagggc ttaaggTTta aactttctt ttctctctgt 480
gttcatTTca tattgagatt atggataaaa agtttggat gacattgtt aacatTTTC 540
tttaatcatg tgattacaga aattcaatga cttaaaaaac aataaatgtt ctttagaaatg 600
aaaaatgcattt cagtaaggTC tttttttttt tttttttttt gacatcataa ttaccaagac 660
aagaaaattgt ttggagaaat ttctctgtatgt tttttttttt caggtttcac gtgcacacat 720
catggTgcCA cggtactgca gttatgcaccc aaacagcaac tcctaatctc 770

<210> 583
<211> 391
<212> DNA
<213> *Homo sapiens*

```
<400> 583
tttttttttg tacatgactc tcatttttatt gtttcttaga catttagaaa cctggggatg 60
agagcaaaaa ctcacggcct aattatgttt acactgatag tttaaagata ttttagcact 120
aaccaggcata aattccataat attcattcaa aatgttagca ctgggtataa agaaggaaac 180
aggtttaggcga aggttggctca tgccctgttaat cccagttactt tgccaggctg aggttggcg 240
atcaactttag cccaggagtt tgagaccaga ctgggcaaca tggcaaaacc ctgtctctac 300
aaacaataaca aaaatttagt ggggttttgtt gtgtatgcct atagtcctcg ctacttggga 360
ggctgaggcga ggagaatcgc ttgaacctgg q 391
```

<210> 584
<211> 407
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> misc_feature
<222> (289)..(289)
<223> n is a, c, q, t or u
```

```
<400> 584
gttccctgct tggggaaatg ttcacacccc ctttgtggata cattgtccag cccagagttt
gtcctccctg gatatgtttt gaattaatga cggccgcacc tcctttccctg tattttatgg
gaattgcctg gtggaaggag gactctgctg cactcaactga ctgtgtgatc tttggtaaat
atcttacccct ctctgggctt agtttcccta gtggtaaagt ggaaatagtg ataactatct
tagatagctg ttgtgtatgcc cacatgagat agcatctggg ctttaccctt tccccctcggt
ctgggcaata acgggttacc ttgcaaggat tqqqcqaaaa qcctttagaqg tatgtgtttt
```

tgcagatggt caccgttgtg attaatgtgg gtgagttcca tgagaga	407
<210> 585	
<211> 2324	
<212> DNA	
<213> Homo sapiens	
<400> 585	
gatgtggacc gtagtcggac cgttctaagg tccaaaagct gcggaaattcc tcgagcactg	60
ttggcctact ggtctgctta aaattctgtt ttaaaaaccc agtttcctag tttccaggc	120
aaatacgatc ctccggaaa gttgctgggg gggcctgaag cacaatgttag cgccatgtct	180
tcctttccag gccattctct caccaggct gcacggagga gatgggagat gctgggggtc	240
ctgccctca gtttttggg ctttaggcgt ttcgttcatc ctgctaaggg gatgaagcaa	300
acacagggtg attccttcgc ctttcagat ggaagccctg gagttttttt tgaaggccag	360
gaggctgaag gatctctaag ctacgggtg ggcttaatag cagcaggctt tgcccttcgt	420
tctccctcaa gccagtgtct gattccttg caacacaggt cttagtcgtt ggagtggctc	480
tgctgtggcc ttccctctggc cgggcaggca ctgtccagcc atagccagct cctgagaata	540
ggtcagcctc ttcccttcgt ctcccaggcc acatccagcc cgtgcctgtt ttcaactgtc	600
ccccaaatgc aattacccat accccttcgc agcctgggg acccaggca ccacagactg	660
tccactcagg ggagctgaat cccaggtcg ccctgcataat gtcctttagg aactgcccag	720
gcaaggcccc tgggtttgtt taattttttcc tgccaccccg cagtagatga gtgtttcagg	780
tgaagaccag gatagatttt ctaagtgtga atccccactt cacatatgg accccttatg	840
ctgaacttga aaagcaccaa gacttcctgt agacaagaaa gtgttaggt agggacagcc	900
cctgggcatac ccacccaaatg tagctggcac cccactatgg caaaggtgcc ttgataactg	960
agccctgtat ccctccatg cccagccaga ttctcatggg aagccctctc ctttttttc	1020
tgccctaaac catctcatcg ttctggccct cactgtggac aatccacaca catttttctt	1080
tcctctctcg gggggcaca gagccacccctt cttgcctttt cttttcttga aggttctagt	1140
ttagctctcg attcatcaga cccttctagc cccctgcatac tagcagtgaa gcatgaagcc	1200
tggggggat gtggactcc catctgtgtt ggcacccaggc tctgccaatg ttccctgtac	1260
cttggaaaac ttgtctctcg ggttctttt ggtgtgtgt actccccaggc ttccccctt	1320
cccccccat ttgcacctg gtttagtga aaggatggca tttgggttgc ccatatagaa	1380
accagaatg aggtctcagg gccaggaggc ctggatattt tagggcagg aagggaaaga	1440
ggcaagttgtt ctggggatatac accagccaggc cctctctgtt ttggcctcta cttccataaa	1500
gtcacagttac cataagcagg ctctggccct cagcaatttgc ccaagtttat	1560

tgtgagaatt	tcctgaaaac	tctataaaag	gtctttcct	actgtaggcc	tctaatgttt	1620
ctcccccttt	tgcttcagtc	cactttag	tcttgttaggc	ctagtttca	aacctgcaca	1680
tgtgtcc tac	ctggccacag	gcatgcaggc	ctcaggcagc	tggccagtt	tgggagcc	1740
gggtatgtc	tgca cagat	ggggctgc	ctgcaccc	gctgtggc	tcagggtt	1800
agaaggcgt	ggaccaacc	ggtgagatcc	acaagtct	ggatgtggc	gaaggcaat	1860
acacaattg	agtaatttct	gtttgaagt	gttccctt	ttgaatctgg	tttgaacat	1920
gcagttctg	tctctagccc	aggaaagac	caaaacatag	ggaaataaaa	gcatttatct	1980
ttgtcttgg	agtaattgtt	gaagttgtc	agttgatcg	tgcacagtt	ggtgcaatgt	2040
ttatagaaat	tgattgttaa	accaaattt	cactggcat	tgtggtag	tttctaaaag	2100
gcacttcaca	tttgaattt	tttctac	tttcaattt	agaaagtcc	tagtgatcta	2160
tttgtattct	tttgtgtgt	ttcaactgtt	ctcagtatta	ccacttgaat	aattctctgt	2220
acaggggggt	ttgtgtata	cactggat	tcttaattgc	gcaataaa	gccttctttaa	2280
aaaggaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaa	aaaaaaa	2324

<210> 586
<211> 1179
<212> DNA
<213> Homo sapiens

<400> 586	atgggttctc	tcagcacagc	taacgttga	tttgcctt	atgtgttcaa	agagctgaac	60
	agtaacaaca	taggatata	catcttctt	tcttcgtga	gtctgttta	tgcctcaago	120
	atggtctcc	tttgtgccag	gggagagact	gcagagcaat	tggagaaggt	gttcat	180
	agtctatactg	tagactcatt	aaaaccagg	ttcaaggact	cacctaagt	cagccaagct	240
	ggaagaattc	atcccgat	tttgtgtcgaa	ttctctcaaa	tcaaccagcc	agactcta	300
	tgtacccctca	gcattgcca	caggctctac	gggacaaaga	cgatggcatt	tcatcagcaa	360
	tatthaagct	tttctgagaa	atggtatca	gccaggttgc	aaactgtgg	ttttgaacag	420
	tctacagaag	aaacgaggaa	aatgattaat	gttgggtt	aaaataaaac	taatggaaaa	480
	gtcgcaaatac	tctttggaaa	gagcacaatt	gacccttcat	ctgtatgtt	cctgggtgaat	540
	accatatatt	tcaaaggaca	aggc	aaatttcaag	taagagagac	agttaaaagt	600
	cctttcagc	taagtgaagg	aaaaatgt	actgtggaa	tgtatgtatca	aattggaaaca	660
	ttaaactgg	cctttgtaaa	ggagccgcag	atgc	atgttcc	ctacgttaac	720
	aaaaaaattaa	gcatgattat	tctgttcca	gtaggcatag	ctaatctgaa	acagatagaa	780
	aagcagctga	attcgggac	gtttcatgag	tggacaagct	cttctaa	cat gatggaaaa	840

gaagttgaag tacacacctcc	cagattcaaa cttgaaatta agtatgagct aaatccc	900
ttaaaaacctc taggggtgac agatctcttc aaccaggta aagctgatct ttctggaatg	960	
tcacccaacca agggcctata tttatcaaaa gccatccaca agtcataacct ggatgtcagc	1020	
gaagaggcgc cgaggcgcact gcagccact ggggacagca tcgctgtaaa aagcctacca	1080	
atgagagctc agttcaaggc gaaccaccc ttctgttct ttataaggca cactcataacc	1140	
aacacgatcc tattctgtgg caagcttgcc tctccctaa	1179	

<210> 587
<211> 822
<212> DNA
<213> Homo sapiens

<400> 587	
gatccctttt ccctttcccc caccctcatt ataggctgcg aagcctccctc tctgcacctg	60
ataacaaaac gtcatatgag aagcatggta gatccttagc atcaaagggtt gaggacttt	120
attctgatta taagtagtgg ctcttgacta caatcaagtc tcaaataata gtgtaaagaga	180
ataaaaggcaga ataataagac taagttaaaa cttttaggctt ctttggaaatc atgcgggcct	240
agatgaaaat cccaacactg tcctttacta gctaagtgc cttagcaac tgattacacc	300
ctttgtgcc tcagttttct cctctgtgtt gtggggtaat agtaatatct acttcctggg	360
gttgttcgtg aagattaatt aacaattata cttgtcaag cttagcaca gtgcctgt	420
tgttatttcc ttggccaaac ttcttactc tgccattgt tcaatgtcct aatgagcatg	480
aacactacat taggtatcat gcagaacact ctaaagataa gtattatgt ctcttattca	540
cagataagga aattttaaact gggagaggct aaaggcgtga ctggccaaag gtcacttggaa	600
actaatatgc cagcagagac agaatttagga gccaagtata tttaaagagcc aagtgtatttgc	660
aaacctaaat ctgggctccct aaatccaag ctcaactggc tctctgttcc cagttagatgt	720
tggtgctaaa aagtattccg gaatgaaaag ttcttccca gagaccctgg ctttccaaag	780
cggtcacctg atagggaaatg cttagggctaa ggaagttaca aa	822

<210> 588
<211> 3129
<212> DNA
<213> Homo sapiens

<400> 588	
cgactctgtcg ccattcccg agcaggctcg ctcggccca gggcgagta tccgttgctg	60
tgtcggagac actagtcccc gacaccgaga cagccagccc tctccctgc ctgcggcgg	120
gagagcgtgt cggccggcc ggcggcgggg gtcgcgc当地 cttccctgc ctcccttc	180

cccgagcct	ccggccccgc	aggccccggc	cggactcccg	agccccggcc	tccttgtct	240
cggtgcggc	tgccgcggg	cttaacagcc	ccgtccggcg	cttctttcc	tagtttgaga	300
agccaaggaa	ggaaacaggg	aaaaatgtcg	ccatgaaggc	cgagaaccgc	tggccgcgc	360
gaccccccgc	ggccctgaac	gccatgagcc	tgggtccccg	ccgcgcgcgc	tccgctccga	420
ctggcgtcgc	cgccgaggcc	cccggtgatg	ccgctgagct	cccccaacgc	cgccgcaccc	480
gcctccgaca	tggacaagaa	cagcggtcc	aacagctct	ccgcctcttc	gggcagcagc	540
aaagggcaac	agccgccccg	ctccgcctcg	cgggggccag	ccggcgagtc	taaacccaag	600
agcgatggaa	agaactccag	tggatccaag	cgttataatc	gcaaacgtga	actttcttac	660
cccaaaaatg	aaagttttaa	caaccagtc	cgtcgctca	gttcacagaa	aagcaagact	720
tttaacaaga	tgcctctca	aaggggcgcc	ggcagcagca	aactctttag	ctcttctttt	780
aatggtggaa	gacgagatga	ggttagcagag	gctcaacggg	cagagtttag	ccctgcccag	840
ttctctggtc	ctaagaagat	caacctaaca	cacttggta	atttcacttt	tgaacccccgt	900
ggccagacgg	gtcactttga	aggcagtgg	catggtagct	ggggaaagag	gaacaagtgg	960
ggacataago	cttttaacaa	ggaactctt	ttacaggcca	actgccaatt	tgtgggtgtct	1020
gaagaccaag	actacacago	tcattttgt	gatcctgata	cattagttaa	ctggacttt	1080
gtggaacaag	tgcgcattt	tagccatgaa	gtgccatctt	gcccaatatg	cctctatcca	1140
cctactgcag	ccaagataac	ccgttggaa	cacatcttct	gctggcattg	catctgcac	1200
tatcttcac	tgagtggaa	gacgtggagt	aatgtccca	tctgttacag	ttctgtgcat	1260
aagaaggatc	tcaagagtgt	tgttgcaca	gagtcacatc	agtatgtgt	tggtgatacc	1320
attacgatgc	agctgtatgaa	gagggagaaa	gggggtgtgg	ttggcttgc	caaatccaaa	1380
tggatgaatg	tagaccatcc	cattcatcta	ggagatgaac	agcacagcca	gtactccaaag	1440
tttctgttgg	cctctaagga	gcaggtgtcg	caccgggtag	ttctggagga	gaaagttagca	1500
ctagagcagc	agctggcaga	ggagaagcac	actcccgagt	cctgttttat	tgaggcagct	1560
atccaggagc	tcaagactcg	ggaagaggct	ctgtcggtat	tggccggaaag	cagaagggag	1620
gtcaactgg	ttgtggctgc	tctggacaa	ctgggtgtga	tggctccctt	ggcgaaggag	1680
tctgttttgc	aaccaggaa	gggtgtgtcg	gagttatctgt	ctgccttcga	tgaagaacc	1740
acggaagttt	gttctctgaa	cactccttc	agaccccttg	ctctccctct	ggtagaaagag	1800
gaggaaggcag	tgtctgaacc	agagcctgag	gggttgccag	aggcctgtga	tgacttggag	1860
tttagcagatg	acaatcttaa	agaggggacc	atttgactg	agtccagcca	gcaggaaaccc	1920
atcaccaagt	caggcttcac	acgcctcagc	agctctccct	gttactactt	ttaccaagcg	1980
gaagatggac	agcatatgtt	cetgcacccct	gtgaatgtgc	gctgcctcg	gcgggagtagc	2040

ggcagcctgg agaggagccc cgagaagatc tcagcaactg tggtgagat tgctggctac	2100
tccatgtctg aggatgttc acagcgctac agatatctt ctcacttgcc actcacctgt	2160
gagttcagca tctgtgaact ggctttgcaa cctcctgtgg tctctaagga aacccttagag	2220
atgttctcag atgacattga gaagaggaaa cgtcagcgcc aaaagaaggc tcgggaggaa	2280
cgcgcgcag agcgcaggat tgagatagag gagaacaaga aacaggcca gtacccagaa	2340
gtccacattc ccctcgagaa tctacagcag tttcctgctc tcaatttta tacctgtcc	2400
tctgattctg ctttgggtcc caccagcacc gagggccatg gggccctctc catttctct	2460
ctcagcagaa gtccagggttc ccatgcagac ttctctgtca cccctctgtc acccaactgcc	2520
agtcaaggca gtccctcatt ctgcgttggg agtctggaag aagactctcc ttcccttcc	2580
tttgcggcaga tgctgagggt tgaaaaagca aaagcagatg tggcccaaa aactgttcca	2640
aagaaagatg agaacagctt agttctctt gcccctgtgg acagcgacgg ggagagtgtat	2700
aattcagacc gtgttctctgt gcccagggtt caaaatttctt tcagccaagg tattgaagca	2760
gccttcatga aactggcacac accagctact tcagatcccc tctctgaaga gaaaggaggaa	2820
aagaaaagaa aaaaacagaa acagaagctc ctgttcagca cctcagtcgt ccacaccaag	2880
tgacactact gggccaggct accttcttcca tctggttttt gttttgtttt tttttttttt	2940
catgcttttg tttggctgtctt gtaatttta agtatttgag tttgaacaga ttagtctgg	3000
ggggagggggg ttcccacaat gtgaggggg accaagaaaa tttaataac agtgtat	3060
ccagcttctt gtctttacac caaaataaaag tattgacaca agagaaaaaaa aaaaaaaaaaa	3120
aaaaaaaaaa	3129

<210> 589
<211> 3116
<212> DNA
<213> Homo sapiens

<400> 589 agcgctcaga tacgcgcacgc gtagcagggg gggaccgaac ggggtgcctca gtgtccttcc	60
cctccccctcg cctggcctcg ccgtctctc cccgcagccg gaccggaaact atgtgateccc	120
ggaagttccg gggcctttgc tggactggat aaacagtaat ggccggaggct gcaactcccc	180
gaacaacacgc cacaacatca ggagcaggag cggcgcggcc gacggcggca gcagcctccc	240
ccaccccgat cccccacagtc accgccttgcg ccctgggggc gggcggagggg ggcggcggca	300
gacggcggcggc cggcggcggc tggactaaac aggtcacccg caggtat tttt atgcattggg	360
tttgttaaggaa aggagacaac tggacttact cgcacatgtt cttttttttt atgcattggg	420
tagtgcacaa gtat ttttccatcg cgagggtact gtat tttatgg agaccgcgtc agatataaac	480

atagcaaacc	attgaaacag	gaagaagcaa	ctgctacaga	gctaactaca	aagtcatccc	540
ttgctgttcc	tcagaatctc	tcatcgatag	ttggaccact	tgttggaaatg	aatacaggcg	600
aagctgagtc	aagaattca	aactttgcaa	ctgttaggagc	aggttcagag	gactggggtga	660
atgttattga	gtttgttccct	gggcaaccct	actgtggccg	tactgcgcct	tcctgcactg	720
aagcacccct	gcaggggctca	gtgaccaagg	aagaatcaga	gaaagagcaa	accgcgtgg	780
agacaaagaa	gcagctgtgc	ccctatgctg	cagtgggaga	gtgcgcatac	ggggagaact	840
gtgtgtatct	ccacggagat	tcttgtgaca	tgtgtggct	gcagctctg	catccaatgg	900
atgtgcctca	gagatcgacg	cataatcaa	cgtgcattga	ggcccatgag	aaggacatgg	960
agctctcatt	tgcgcgtgcag	cgcagcaagg	acatggtgc	tggatctgc	atggaggatgg	1020
tctatgagaa	agccaacccc	agtgagcgcc	gttcgggat	cctctccaa	tgcaaccaca	1080
cctactgtct	caagtgcatt	cgcaagtgg	ggagtgc	taaagtttag	gcaatttgag	1140
taaagtccctg	cccagaatgc	cggatcacat	ctaactttgt	cattccaa	gagtaactggg	1200
tggaggagaa	agaagagaag	cagaaactca	ttctgaaata	caaggaggca	atgagcaaca	1260
aggcgtgcag	gtatttgtat	gaaggacgtg	ggagctgccc	atttggaggg	aactgttttt	1320
acaagcatgc	gtaccctgtat	ggccgttagag	aggagccaca	gagacagaaa	gtgggaacat	1380
caagcgatca	ccggggccaa	cgaaggaacc	acttctggaa	actcattgag	gaaagagaga	1440
acagcaaccc	cttgcacac	gatgaagaag	aggttgcac	ctttgagctg	ggcgagatgt	1500
tgcttatgt	tttggctgca	ggtggggacg	acgaactaac	agactctgaa	gatgagtggg	1560
acttggttca	tgtatgagctg	gaagattttt	atgacttgg	tctatagcaa	ccttgcgtgg	1620
cgtgtgaact	ggtctgtga	cctcagacag	cagctgtccc	ctgtgggt	gtggcagtgc	1680
ctgtgttctc	tcttagggcag	gcctctcaac	tccagggtgt	gtcctaagaa	tttttaccca	1740
gggcctgtct	tctcaacccc	tcacccccc	ctgaggagtg	tgtgttttc	cctgtgaaa	1800
aaagttacaa	aaataaatct	taaagtttagt	tttttgcac	acgaatttaa	ctgtcagaca	1860
gttagtgttag	gtgtgttgcg	tcatctgttt	tcaaccagat	tgcatttgc	gactttcac	1920
acactcatt	tgaggacccc	aggttcaaaa	gtaaaagcag	tggccctgt	ttggggtcca	1980
agaataggag	tgatgggtga	agggaccta	gctggccaa	agccctctgc	cccgacatcg	2040
ggatgtggat	ccttgggtt	tctgggtaaa	tctgcacatc	tgtgtttta	tatctgttcc	2100
ctaccctgtat	atccccatcca	cgtgcacttg	ttctgtgggtt	ttggctcttt	gtttaattgc	2160
acacaagtaa	tactactggg	taaccagaat	caggtgtgaa	tgtgttgaga	ttttttactg	2220
ttttgcata	tagaaaaatt	gagaaagaat	acgtataaaa	gatagagagg	cataacatca	2280

atgcagagt ggaagttggc tcccaagggc tgacatggt tgagtgtgtg ggtgtgtat	2340
aagcttctca tccctgcata gatgcagtat cttagcct agtagaaaaa cctggtttag	2400
tgguttaagc ctttgtgtggc agatagatct taaaggcca agcagtatat tggtagttgt	2460
caatatagca gtgttagctc tgtctatata aatagagaaa tggggttagc catagaggtt	2520
aaaactacct ggttatccca tataataaca caaaactgggt ctggataca cagttgtatt	2580
taatgttta cgatctagcc ttcccagtac aggcaacttc tgagaaacct ttgtcctcac	2640
ttgaggcatt ttgttgtcg gttttgtgt ttgttttgc gggtattgc ctcatccac	2700
ccctgagct tcaggtagac agacgtgatt caaaactctg ttctaaagggt tttattgttag	2760
tggagtaatg ggtttgcagt gataagtcat acttttccac cggaaaggag ggcttggaa	2820
tccctgagat tagctaaagt taagttgttg gaagaattcc ttgattggaa attgtacctt	2880
tgtgttttgc tgctctgtt cctgaaaata actcggggat gctcctgggt tgccatcta	2940
ctgttttgcat tccttggatc ccaccatcc ttcaacttta agaaaaaaaca aataattgtt	3000
gcagaggctc ctgtattttgc cagctgcct tttgttaagaa gcactttcc caaataaaac	3060
aattaa	3116

<210> 590
<211> 570
<212> DNA
<213> Homo sapiens

<400> 590	
ttttccgggtt gcggcgccgc gcgggtgaggt tgctctagtcc acgctcggag ccatgccgtc	60
caaggggccgc ctgcagtctg tgcagggtctt cggacgcga aagacagcga cagctgtggc	120
gcactgcaaa cgcggcaatg gtctcatcaa ggtgaacggg cggccccctgg agatgattga	180
gccgcgcacg ctacagtaca agctgctgga gccagttctg cttctcggca aggagcgtt	240
tgctgggtgt aacatccgtc tccgtgtaaa gggtgggtgt cacgtggccc agattttatgc	300
tatccgtcag tccatctcca aagccctggt ggcctattac cagaaatatg tggatgaggc	360
ttccaagaag gagatcaaag acatcctcat ccagatgac cggaccctgc tggtagctga	420
ccctcgtcgc tgcgagtcca aaaagttgg agggccctgg gcccgcgtc gctaccagaa	480
atcctaccga taagccatc gtgactcaaa actcaacttgt ataataaaca gtttttgagg	540
gatTTTaaag ttcaaaaaa aaa	570

<210> 591
<211> 5925
<212> DNA
<213> Homo sapiens

tatctggaga tcagcattag aaagtggacg gtatgagctg ttaagtgagg aaaacaagg	3540
aatgggata attaaaactg tgaatgaaga cgtagaagag atggaaattt atgaacaaac	3600
aaaggtcata gtaaaagaca gactttggg gataaaaaca gaaactccaa gtactgtatc	3660
aacaatgc agtacaccac aatcagttag cagtgtggg cattatctgg caatggact	3720
ctttcaataa gagcagggca ttgagcggcg ttttctgaaa gctccacttg atgccagtga	3780
cagtggcggt tcttataaaa cagttctgga ccgttggaga gagtctctcc tttcttgc	3840
tagtctatcc caagtttttc ttcacctatc caccttggat cgtagcgtga tatggctaa	3900
atctatactg aatgcgcgtt gcaagatatg tcgaaagaaa ggcgtatgtt aaaaatgtt	3960
tctttgtat ggctgtgata ggggtcatca tacctactgt ttgcaccaa agctcaagac	4020
tgtgcctgaa ggagactgtt tttgtccaga atgtcgcacca aagcaacgtt gttagaagact	4080
gtccctttaga cagagaccat ctttggaaag tgatgaagat gtggaagaca gtatggagg	4140
tgaggatgtat gaagttgtat gcgtatgaaga agaaggtaaa agtgaggagg aagagttatga	4200
ggtagaaacaat gatgaagatg actctcaaga agaggaagaa gtcagcctac ccaaaccagg	4260
aagaccacaa gtttagattgc cagttaaaac aagagggaaa cttagctttt ctttctcaag	4320
tcgtggccaa caacaagaac ctggaaagata cccttccagg agtcagcaga gcacacccaa	4380
aacaactgtt ttttctaaaaa ctggtagaaag cctaagaaag ataaaactctg ctctcttac	4440
agaaacaaaaa tctttaaagaa ttgccagtc ttctactcg cacagtcatg gcccactgca	4500
agcagatgtat ttttgttgcat tgcttagtcc tcgttagaaaaa cgcagaggca gggaaagtgc	4560
taataataca ccagaaaata gtcccaactt ccctaacttc agagtcattt ccacaaaatgc	4620
aagtgaacag tcaagatctg taaatattgc ttcaaaaactt tctctccaag agagtgaatc	4680
caaaaagaaga tgcagaaaaa gacaatctcc agagccatcg cctgtgacac tgggtcgaag	4740
gagttctggc cgacaggagg gagttcatga attgtctgtt tttgaacaac ttgttgtaga	4800
attggtagca catgtgaca gctggcctt tttgaaactt gtttctaaaaa tccaggtccc	4860
agactactat gacatcatca aaaagccccat tgcccttaat ataattctgt aaaaatgtaa	4920
taagtgtgaa tataaatttag catctgatgtt tattgtatgc attgtgtttaa tgttttcgaa	4980
ctgcttggaa tacaaccctc gtaacacaag tgaagcaaaa gctggaaacta ggcttcaagc	5040
atttttcatt attcaggctc aaaagcttgg actccacgtc acacccatgtt atgtggacca	5100
agtttagcaca ccacccgtcg cggaaaatgtc acgaatctga ctttgcctt cttaaggata	5160
tatggaaaga aaaacaattt gttcatgaaa atggaaacatt aatcatgtt gtataaagca	5220
ataacaaacaat attgattgac cacatgaaag tggcctgc actatattctt caattttaat	5280

ataaggact caggagaatg taggaaagat atcccttgct acagtttgt tcagtatcta	5340
ataagttga tagatgtatt ggatacagta ctggtttaca gaggttttg tacattttg	5400
anatcattca tgtgtccaga gatcttggaa aatattttt cacccacgat ttattttgtt	5460
attgtatgatt tattttaaa gtgggttat taaggagag ttatctacat ggatgagtct	5520
tccgctatag cacagtttag aaaaggtgtt tatgtcttaa ttaattgttt gagtacattc	5580
tttcaacact acacatgaat gaatccaatc ttataaacctt gaagtgttgtt accagtgtcg	5640
gctgcaggta ttaagtccaa gtttattaac tagatattta tttagtattt agagtaattt	5700
gtgaatttgtt ttgttattta taaaattttt acctggaaaa tgttcttaa tgttttaaac	5760
cttttactgt gttttatttc ctcttaacttc cttaatgatc aataaaaaaaaa agtaacaccc	5820
tcccccttttc ctgacagttc tttagctt acagaaactgt attataagttt ctatgtataa	5880
tttaactgt tcaaaaaaa tacatTTTc caaaaaaaaaaaaa	5925

<210> 592
<211> 468
<212> DNA
<213> *Homo sapiens*

```
<400> 592
ttttttttt ttttttaaa tgtacacctc cttaatctg attttctcc ttttgaaac   60
aggctcccc tgtcacccag gctggagtgc agcagtgc aa tcacagctca ctgcagcctt 120
gacatccca ggttcaagcg atcctcccg ttcagccctc cgagtagccg ggaccacagg 180
agcgcaccac cacacccgga taatttttt tagagatggg gtttccacgg tttgcccagg 240
tcactctcaa actcctggc tcaaggcgtc tccctgcctt ggtttccaa agtccctggga 300
ttttaggcgt gagccacat gcccagcatt aatcatttt agtggaaatg taaccattt 360
aggataatgt cttacaaaaa cgtgagtaca agcaagcaaa gacattttca gaaaatttt 420
cacagatgt gtgagtctaa tgccaaaaaa cttaaacacag ctttttgq 468
```

<210> 593
<211> 1154
<212> DNA
<213> *Homo sapiens*

```
<400> 593  
ggggcccttc cggcgggtga cattcagccg gcgggtcggg ggcacggact ctccattcca 60  
gaaccatggc ccaatttgtc cgtaaccttg tggagaagac cccggcgctg gtgaacgctg 120  
ctgtgactta ctgcgaagctt cgattggcca cattttggta ctacgccaa gttgagctgg 180  
ttccctccccac ccctgtcttag atcccttagag ctattcagag cctaaaaaa atagccaata 240  
gtgctcagac tgtagcttc aaacagctca cagttaaqqa agctgtctgta aatggtttg 300
```

tggccactga ggtgttgatg tggtttatg tcggagagat tataggcaag cggggcatca	360
ttggctatga tggttgaaga ccaatctta acatctgatt atatttgatt tattatttga	420
gtgttgtgg accatgtgtc atcagactgc tatctgaata aaataagatt tgtcaaaaact	480
cagtgttttc tccatcagat actccatgaa aggtcacaat ttcttcttgat attaagctgg	540
gttgtcttta aacaacccta aatacacgtc tggttagccc gcaattggaa aggatataatg	600
tggcaatatt aacctggta atgaatataat ggggataaca tttaatttg aagggttggaa	660
atatatataat ttaagcttta ttccagaac agtgagggtt aggtcttggg aaaactataaa	720
cttgccaaag tagaagaaat agtagtacca tatgccaaag tgatagagat gaatcatgtc	780
agtagttaga ataacatssc aactgttttc ttgtctaaaa tcacagaaag accctattga	840
caacatctat gtctgtaaaa atgttagagt actgtcatac ttgaatatacg cctccccaag	900
agagaacagg gtggattct aagtatgtt ctgttaaca tcttttagcag taggacagag	960
ccatacatgt gaaatctgtat ttgtatgtgt gttattcggt tgctctggg tactaccttt	1020
gcaaaaaaca aataccccaa agatatttaa acaagggtt aattnagcat ctccctggaa	1080
tctaaatagt atattatatc ctgaaataaa tgaaatgatt gctcaaaaaa aaaaaaaaaaa	1140
aaaaaaaaaaa aaaa	1154

<210> 594
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(44)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (263)..(372)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (408)..(408)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (423)..(423)
<223> n is a, c, g, t or u

<400> 594
tacaagcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnaaagaa gtaaaatctt 60

tatcatgaaa	tttatatgtaa	aaagaatcac	tca	gttaaaga	caatttccat	aaaataaaaa	120
tggatatgga	tactatTTAA	ctatgttGta	ttaaaaaaaaa	ctgatcaaag	aattggTTTA		180
atggaaaatg	ctctggaaaa	ttctttGca	acagttcAtC	gtgttGata	taatcctaAt		240
taaaattatc	ggactccagt	ttnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn		300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn		360
nnnnnnnnnn	nnagagaaaag	ttgcacgtgt	gcacgttcc	ttgcccGnGa	aggtaaaaaa		420
aanaaaaaaag	aggA						434

<210> 595
<211> 1424
<212> DNA
<213> Homo sapiens

<400> 595	ggcacgaggc	ccacatggac	ggagctgccc	gggcggcgcc	gccggggacca	ggatgcggcc	60
gccccgttaatt	aaatAGCATT	tactcttatt	attactaata	ataataACGT	aatcatacCT		120
ctagtcata	cataccattt	atcgggctcg	gcgcaggccc	gcggggagcg	cagccggcg		180
gagggtctccc	tctgtatccc	agccgaagct	ggacggtaCT	gctgccatct	cggctcaCTG		240
caacctccct	gcctgattct	cctgcctca	cctgcccAGT	gcctgcgatt	gaaggcgtgc		300
gccccacgc	ctgactggTT	ttcgtatTTT	tttgggttag	acggggTTTC	gctgttgtgg		360
ccgggctgg	ctccagctcc	taaccgcgag	tgtatgcacca	gcctcgcc	cccgagggtc		420
cgggattgca	gacggagtct	cgttcactca	gtgctcaatG	gtgccaaggc	tggagtgcag		480
tggcgtatc	tccgtctcg	acaacctcca	cctccagca	gcctgccttg	gcctccaaa		540
gtgccgagat	tgcagectct	gccccggcgc	caccccgct	ggaaagttag	gagcgtctct		600
gcctggccgc	ccatcgctcg	ggatgtgagg	agccccctcg	cctggctGCC	cagtctggaa		660
agttagggagc	gtctctgccc	agccgccc	ccatctagga	agttagggagc	gcctttccc		720
ggccgccc	ccatctggaa	agttagggagc	gtctctgccc	ggccgccc	cgtctgagat		780
gtggggagca	cctctgccc	gccaccccg	ccgggatgtg	aggagcgtct	ctgccccggc		840
gccccatcg	agaagttagg	agccccctcg	cccgccagcc	gccccgtctg	agaagttagg		900
agccccctcg	cccagcagcc	accccgctcg	ggaagttagg	agcgtctccg	cccgccagcc		960
acctcg	ggagggaggt	cggggggtca	gccccccg	cgccagcc	ccccgtccag		1020
gaggaaactc	tttggatgtat	tactgaccaa	aacaggaaat	aacctaACAG	agaggaAAGAC		1080
agggatTTA	ggaaaccggA	gatcacacag	gaaggaggtA	aaggaaATC	ccaggatgtat		1140
ggcaaaaggGA	agtccccaaa	caacagctgt	gcaacaagaa	taaagaacaa	tcagaggacc		1200

tcttgagccc agaggcataag gctgcgggtga gccaaaggctcg tgccactaca ctgaaggcctg	1260
ggcaacacag tgagaccctg tctcaaaaca gaaaaggacc tatcagcccc aagtggagca	1320
gaacagaggg atttgggagg aatgtcctca gaaaaagata taaaacaca gttatctgaa	1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa	1424

<210> 596
<211> 2120
<212> DNA
<213> Homo sapiens

<400> 596	
cgcattgtgg tccgcttc tcgactatgt cgggtggct cctgaaggcg ctgcgcagcg	60
actcctacgt ggagctgagc cagtaccggg accagcacct ccgggggtgc aatgaagaac	120
aagaaaaatt actgaagaaa agctgtacgt tatatgttg aaatcttct ttttaccaa	180
ctgaagaaca aatctatgaa ctcttcagca aaagtggtaa cataaaagaaa atcattatgg	240
gtctggataa aatgaagaaa acagcatgtg gattctgttt tggaaatat tactcacgcg	300
cagatgcggg aaacgccatg cggtacataa atgggacgcg tctggatgac cgaatcatc	360
gcacagactg ggacgcaggc tttaaggagg gcaggcaata cggccgtggg cgatctgggg	420
gccaggctcg ggatgagttt cggcaggact acgatgtgg gagaggaggc tatggaaaac	480
tggcacagaa ccagtgtatgt gttagagactc tgcgtgtac aaacactctt ttggcctgtt	540
gaatttgcgt aagaacatca cctaaagtct gcacacgago ccattttac caagatttga	600
tcaagtgtctt tactgagactg gaagcctctg aaagtttata aaggacagaa tccaaaagaa	660
tgccttaat tcttgcgtga gaatcttggc catgtgtcag attatcagaa caattttgtt	720
accaggttcg aaattgtgtt ctttgacaac agattggatc tggatgttg attagtcttt	780
agccataacc actacacttt tagaaagaca gaaaaatgtt agaattttttt tttaccataa	840
ttagtcttaa ttagtgcattt gatctacatt gggcctggg attatttttt taatttttaag	900
tttgcatgat atagcctaat aaatggaggt gggccaggc atggcgttc acacgtgtaa	960
tcccaacact ttgggaggct gaggagaaat gatagcttgc ggccaggact tggagactag	1020
actggcaac atagcaagac cccgtctcta caaagcacaa cggaaaaacaa caaatggagt	1080
tgtgttatgt tggatgttt tgcacaaat taggaacagg tggatgttca ttgaattttgt	1140
tttctgtgaa ttctaacctc taaaggcatg ctttagaggctc aaggacccctc ctgtgttagtt	1200
ggtgcggaaat caatctccac aggacagcac tgcttccatg cttcatacat cagggaaatgt	1260
ggccagaact ttagtattta ctaacacgtt ttcaaaaga tggatgtttt atacctaaag	1320
ctaaaaaaaaa gcaagggtttt gtcatacagg gaaacctctaa ataatttcag gggtaggggg	1380

gatgttgtca ataggaaatg ggataaaata tcaagagaca atgaaaacac tgccttgaca	1440
tgaggaccag caagtttattt ctttcattt tcagtatgt tgggaatgga ctgggttta	1500
aaaggggact tgaagaggga atgtttgaca gtcacagaag gttcctgcag cagatgcctc	1560
tttagccat ttctcatttt tttcctcaaa tttacctac tgaggctcaa gccttcacag	1620
tgagctatgt gtctctacag ggagggggagt ctaggaaatttatttggat ttgttaaggca	1680
agaggtatttctat atatctgagt tattgtcat taaaaactgt taagtccagt	1740
ataatttcc ctgatatgaa aaaatgtgca ttttttcac ttagcaacaa agtacccct	1800
aatttccaat agtccgtgaa agttggggct gaagtaccta agtgtgaatg tctctcccg	1860
taaactgagt gttagaaatct gaatttttaa aagagctgta actagttgta agtgcctagg	1920
aagaaactt gcaaacattt aatgaggata cactgttcat tttaaaattt cttcacact	1980
gtatattaat gtgtttata ttctttgtat gtaaaacaac ataactcaga ttctacagg	2040
agacagtgg tttatggta ttgtcttctg taataggttt caataaaagct ggatgaacct	2100
aaaaaaaaaaaaaaa aaaaaaaaaaaaaa	2120

<210> 597
<211> 551
<212> DNA
<213> Homo sapiens

<400> 597	
ttttttttt tttttttgca cacacatatc tttttatgg agagttaaa aggaaatctg	60
aggccagag gatcagacag cctcttgc tgcataaaa ggaccaataa gaagccaaact	120
gatattacag ggcaaattgtt cccagacagg ccagcctgc ccccttagga atgagtgcc	180
ctggaggggg agagcctgga accaaagccc cgccaggaac tgctccccct aaactgaggt	240
tctctgaaaa aaatgttgcg ctggctgata aagccgcctc ttaacagagc ccagacactt	300
ctgtgttcc cctgggttgc taattggaga cactaaagcc ctaagagata ccccaggctcg	360
ggggaaaggcc ccccaagacc tagacctccg gtggcgacca tgcccttgag aggatgggag	420
ctgaattggaa gcacgagatt atttatcatac gctggatgaa gcttccagct agagctcagt	480
atttctctt ttctgggtt cagacagaca cagactggaa ggaatctgt ccgtttggct	540
gtgggagtg t	551

<210> 598
<211> 1458
<212> DNA
<213> Homo sapiens

<400> 598	
ttatgttcctc ggggagcccc tggtgccccg gatacggctg atttgtcgt gtgggacctg	60

ttctggctgc	tccagccccca	ggaaggaccc	aggacacccg	gaagccggaa	atggactca	120
tggccttga	ggatgtggct	gtgaacttc	cccaggagga	gtggcgctt	ctgagtcc	180
cccagaagaa	tctctacaga	gatgtgacgc	tggaaacctt	caggaacctg	gcctcggtcg	240
gaatccaatg	gaaagaccag	gacattgaga	atctgtacca	aaacctgggg	attaagctaa	300
gaagtcttggt	ggagagactc	tgtggacgt	aagaaggaa	tgaacacaga	gaaacttca	360
gccagattcc	tgattgtcac	ctgaacaaga	aaagtcaa	tggagtgaa	ccatgcaat	420
gcagcgtgt	tggaaagtgc	ttccctccgtc	attcattct	ggacaggcac	atgagagctc	480
atgtctggaca	caaacgatc	gagtgtgggt	ggaaatggag	agagacgccc	cgtaaacaga	540
aacaacatgg	gaaagcctcc	atttccccca	gtagtgtgc	acggcgca	gtAACACCAA	600
ctcgaaagag	accttatgaa	tgcaggatgt	gccccaaagc	ctttaattct	cccaatttat	660
ttcaaatcca	tcaaagaact	cacactggaa	agaggtccta	taaatgttag	gaaatagtga	720
gagccttcac	agtttccagt	ttctttcgaa	aacatggaa	aatgcatact	ggagaaaaac	780
gctatgaatg	taataactgt	ggaaaaccta	tgcattatcc	cagtttattt	caaattcatg	840
tttagaactca	cactggagaa	aaaccttaca	aatgtaaaca	atgtggtaaa	gccttcattt	900
ccgcaggta	ccttcggaca	catgaaatca	gatctcacgc	gctggagaaa	tcccaccaat	960
gtcaggaatg	tggaaaaaa	ctcagttgtt	ccagttccct	tcacagacat	gaaagaactc	1020
atagtggagg	aaaactctac	gaatgtcaa	aatgtgcca	agtctttaga	tgtcccacgt	1080
cccttcaagc	acatgaaaga	gctcacactg	gagaaagacc	ttatgaatgt	aataaatgt	1140
gtaaaacctt	caattatccc	agttgtttc	gaagacataa	aaaaactcat	agtggagaaa	1200
agccatatga	atgtacaagg	tgtggtaaag	ccttgggt	gtgcagttcc	ctccgaagac	1260
atgaaatgac	tcacactgga	aaaaaccc	ttgattgtaa	acagtgtgt	aaagtcttta	1320
ctttttcaaa	ttacctttaga	cttcatgaaa	gaactcattt	ggccgggcgt	agccagtgct	1380
ttggcaggag	gcagggggat	cacctgagcc	caggagttt	agaccagcct	ggcaacata	1440
agaaggcccc	cggaattc					1458

<210> 599
<211> 3176
<212> DNA
<213> Homo sapiens

<400> 599	acccaggagac	ctatcacaca	aatataagaa	ctattcatc	tttaaggcat	gtatttccaa	60
gcctttgtat	ttttttccat	gcttagggtt	ggcaaggaat	atatatatat	ttgtacaat		120
atatatgtgt	atatgtacaa	atacatgtat	atatagtaca	aatataatata	tatatttgt		180

caattcttca gactttgtag aatttgtata atgtcgatc ttgcgttttt taaccactga	240
tgttataaggc atatttatgc cacttcattc atttttagaga cttataata aatgatctag	300
tggataattt atcattccct gatggagaaa aatttagctt tggttatccc agaggataaa	360
acgatgctgg gtcaggtatc tttatgtttt aagatggctc cataatttggg ttgtttccac	420
agaactcttt cctagaaatg ctttttctag gttaatggct acagatattt ctaggcacct	480
gacatattga caccaccc taaagtattt ttatgatcca caactagcgt ttaacacacg	540
gccttagtca ctacatgact aataaataga caaatgactg aaacatgacc tcatgctttc	600
tattcctcca gctttcatc agttctttgc ctctgggagg aggaagggtt gtgcagccct	660
ccacagcatc agcccatcaa ccctatccct gtgggtatag cagctgagga agcagaattt	720
cagctctgtg ggaaggaatg gggctggaga gttcatgcac agaccagttc ttatgagaag	780
ggactgacta agaatagcct tgggttgaca tataccccctc ttcacactca caggagaaac	840
cattttcccta taaaactata acaagtcatg agttgagagc tgagagttt agaatagtc	900
aaagatgctt ttcttggata tcctgagccc ctgtgttac cagggaccct gagttgtgca	960
acttagcatg acagcatcac tacgctaaa aatttccctc ctcaccccca gattccattt	1020
ccccatccgc cagggctgcc tataaagagg agagctgggtt tcaagactca gaaggacacg	1080
ggcagcagac agtggcgtt cttttcttgg ctctgctgac actcgagccc acattccgtc	1140
acctgctcag aatcatgcag gtctccactg ctgccttgc tgcctccctc tgcaccatgg	1200
ctctctgcaa ccagttctct gcacacgtg agtctgagtt tcggttggg tatcaccact	1260
ctctggccat ggttagacca catcaatctt ttcttggc cttttttttt ccaagagaaa	1320
agagaacttc tttaagggtt gccaaacatc ttggcttttc tctttttttt tttttttttt	1380
atctctgaa ggggtcttag ccccttagtc tccaggtatg agaatctagg cagggggcagg	1440
ggagttacag tcccttttac agatagaaaa acagggttcg aaacgaatca gtttgcaga	1500
ggcagaatcc agggctgctt acttccctgtt ggggtatgtt gtccactctc cagctcactc	1560
taggtctccc aggagctctg tcccttggat gtctttagag agatgtccaa ggcttcttt	1620
gggttgggtt atgacttctt gaaaccagaca aaattccctg aagagaactg agataagaga	1680
acagttccgtt caggtatctg gtcacacag agaaacacag aacccactat gaagagtcaa	1740
ggagaaaagaa ggatacagac agaaacaaag agacattct cagaaaaat gcccataatgc	1800
cttccactca ctggcttgc gcaaggctgc cttccatcaac tgctggggc tcaagatctc	1860
cctggcccttt ttttctgagc tggactcggtt gtcattctc ttcccttctc cacagttgt	1920
gctgacacgc cgaccgcctg ctgcttcagc tacacctccc ggcagatcc acagaatttc	1980

atagctgact actttgagac gaggcagccag tgctccaagc ccgggtgtcat gtaagtgc
gtcttcctgc tcacctctat ggaggttaggg agggtcaggg ttggggcaga gacaggccag
aaggctatcc tggaaaggcc cagccttcag gggctatcg gggatacagg acgcagggt
ccgaggtgtg acctgacttg gagctggagt gaggcatgtg ttacagagtc aggaagggt
gccccagccc agagggaaagg gacaggaaga aggaggcagc gggcacatct gagggccacc
cctactgagt cactgagaga agctctctag acagagatag gcagggggcc cctgaaagag
gagcaagccc tgagctgccc aggacagaga gcagaatggt ggggcatgg tggggccagg
attcccccgc tggattttttc agtgcctaacc tttccctccc ttccacagc ctgcctaacc
aagcgaagcc ggcaggctcg tgctgacccc agtggagggt gggtccagaa atatgtcagc
gacctggcgc tgagtgcctg aggggtccag aagcttcgag gcccagcgc ctgggtggc
ccagtgggga ggagcaggag cctgagccctt gggaaacatgc tggtgcaccc cacagctacc
ttttctatgg actgggttgtt gccaaacagc cacactgtgg gactttctt aacttaattt
ttaatttttatactatattt agtttttgta atttttttc gatttcacag tgggttttgt
attgtttgtc ctgagagttc ccctgtcccc tcccccttcc ctcacacccgc tgctgggtac
aaccgagttt ctgtcatcag cctgtgttagg cagtcatggc accaaagcca ccagactgac
aatatgttat cggatgtttt tggtcagggc tggatcgcc ctggggaaat aataaaatgt
ctttttaaa aggttaaacca gtattgagtt tggttttgtt ttctggcaa atcaaaaatca
ctgggttaaga ggaatcatag gcaaaagatta ggaagaggtg aaatggaggg aaattggag
agatggggag ggctaccaca gagttatcca ctttacaacg gagacacagt tctggacat
tqaaaactcq aatatqtat aactcaaaatc ataacatqca tqctctaaqqa qaattc
3176

<210> 600
<211> 130
<212> DNA
<213> *Homo sapiens*

```
<400> 600
gttaactagaa atggcagggt aaggagtgtt tgccctgacat cgtctcgaaa ttacggaaaga 60
ggggccccctca cgatgtgccc atcagccccca cctgaaatag caagaataatct tcttcagcag 120
agagcqataa 130
```

```
<210> 601  
<211> 200  
<212> DNA  
<213> Homo sapiens
```

<400> 601
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60

tttttttttt tttttttttt ggggcccccg gctttttta taaaaaccag ggggaagggtt	120
tgggc当地 ccccccaggct ttgggtttc cccccccccc ccgggaaagg ggccccccc	180
cccccccaa aaaaaacca	200

<210> 602
<211> 921
<212> DNA
<213> Homo sapiens

<400> 602 gccccggctcg cgccaaggga cgtgtttctg cgctcgctg gtcatggagg cgctgccgt	60
gctagccgcg acaactccgg accacggccg ccaccegaagg ctgcttctgc tgccgctact	120
gtgttctg ctgccccggctg gagctgtgca gggctggag acagaggaga ggccccggac	180
tcgcgaagag gagtgcact tctacgcggg tggacaagtg tacccggag aggcattccg	240
ggtatcggtc gccgaccact ccctgcacact aagcaaagcg aagatttcca agccagcgcc	300
ctactggaa ggaacagctg tgatcgatgg agaatttaag gagctgaagt taactgatta	360
tcgtggaaa tacttggttt tctttttcta cccacttgat ttcacatttg tgtgtccaaac	420
tgaaattatc gcttttggcg acagacttga agaattcaga tctataaata ctgaagtggt	480
agcatgctct gttgattcac agtttacca tttggctgg attaatacc ctcgaagaca	540
aggaggactt gggcaataa ggattccact tctttcagat ttgaccatc agatctcaa	600
ggactatggt gtatcacctag aggactcagg ccacacttt agaggtctct tcattattga	660
tgacaaagga atcctaagac aaattactct gaatgatctt cctgtggta gatcagtgg	720
tgagacacta cgtttggtc aagcattcca gtacactgac aaacacggag aagtctgccc	780
tgctggctgg aaacctggta gtgaaacaat aatcccgat ccagctggaa agctgaagta	840
tttcgataaa ctgaatttag aataacttct tcaagttatg atgcttgaaa gttctcaata	900
aagttcacgg tttcattacc a	921

<210> 603
<211> 2591
<212> DNA
<213> Homo sapiens

<400> 603 ctcagactgt ctttctctc tggactgtaa gaatatgtct ccagggccag tgtctgctgc	60
gatecgatcc cacttccaa gtcctggcat ctcatgcat ctggaaagct acctgcattta	120
agtcaggact gggcacacag gtgaaactcca gaaagaagaa gctatggccg cagtgttct	180
ggagagcatac ttctgaagc gatcccaaca gaaaaagaaa acatcacctc taaaactcaa	240

gaagcgcctg	tttccttgc	ccgtgcacaa	actctcctac	tatgagtatg	actttaacg	300
tgggagaaga	ggcagtaaga	agggttcaat	agatgttag	aagatcact	gtgttgaaac	360
agtggttct	aaaaaaaatc	ctcccccaga	aagacagatt	ccgagaagag	gtgaagagtc	420
cagtgaaatg	gagcaaattt	caatcattga	agggttccct	tatcccttc	aggtgtata	480
tgtatggagg	cctctctacg	tcttctcccc	aactgaagaa	ctaaggaagc	ggtgattca	540
ccagctcaa	aacgtaatcc	ggtaacaacag	tgtatgttgtt	cagaaatatc	acccttgctt	600
ctggatcgat	gggcagttatc	tctgtctgtc	tcagacagcc	aaaaatgcta	tgggctgcca	660
aatttggag	aacaggaatg	gaagcttaaa	acctggagtt	tctcacccga	agacaaaaaa	720
gccttctccc	ccaaacgcctg	aggaggacca	gatcttgaaa	aagccactac	cgcctgagcc	780
agcagcgcga	ccagtcctcc	caagtgtatc	aaaaaggtt	gtggccctt	atgattacat	840
gccaatgaat	gcaaatgatc	tacagctgcg	gaagggtat	aatattttta	tcttggagga	900
aagcaactta	ccatggtgg	gagcacgaga	aaaaatggg	caggaaggct	acattcttag	960
taactatgtc	actgaagcag	aagactccat	agaaatgtat	gagtggattt	ccaaacacat	1020
gactcgagtt	caggtctgagc	aactgttaaa	gcaagagggg	aaagaaggag	gtttcattgt	1080
cagagactcc	agcaaagctg	gcaaatatac	agtgtctgt	tttgtctaat	ccacagggg	1140
ccctcaagg	gtgtatcg	attatgtgt	gtgttccaca	cctcagagcc	agtattacct	1200
ggctgagaag	cacctttca	gcaccatccc	tgagctcatt	aactaccatc	agcacaactc	1260
tgcaggactc	atatccaggc	tcaaatatcc	agtgtctca	aaaaacaaga	atgcaccc	1320
cactgcggc	ctgggatacg	gatcatggg	aattgtatcca	aggacctga	ctttctgaa	1380
ggagctgggg	actggacaat	ttggggtagt	gaagtatggg	aaatggagag	gccagttacga	1440
cgtggccatc	aaagatgtca	aagaaggctc	catgtctgaa	gatgaattca	ttgaagaagc	1500
caaagtcatg	atgaatcttt	cccatgagaa	gctgggtcag	ttgtatggcg	tctgcaccaa	1560
gcagegc	atcttcatca	tcactggat	catggccat	ggctgcctcc	tgaactacct	1620
gagggagatg	cgccacccgt	tccagactca	gcagctgta	gagatgtca	aggatgtct	1680
tgaagccatg	gaataacctgg	agtcaaagca	gttccttac	cgagacctgg	cagctcgaaa	1740
ctgtttggta	aacgtatcaag	gagttgttaa	agtatctgt	ttcggcctgt	ccaggtatgt	1800
cctggatgtat	gaatacacaa	gctcgttgg	ctccaaat	ccagtcgggt	ggccccacc	1860
ggaagtccctg	atgtatagca	agttcagcag	caaatactgac	atttgggttt	ttggggtttt	1920
gatgtggaa	atttactccc	ttggggagat	gccatatgag	agatgtacta	acagtgagac	1980
tgctgaaacac	attggccaag	gcctacgtct	ctacaggct	catactggctt	cagagaaggt	2040
atataccatc	atgtacagtt	gttggcatga	gaaagcagat	gagcgtccca	ctttcaaat	2100

tctttctgagc	aatattctag	atgtcatgga	tgaagaatcc	tgagctgcc	aataagctt	2160
ttggttctac	ttctttctc	cacaagcccc	aatttcactt	tctcagagga	aatcccaagc	2220
tttaggagccc	tggagccctt	gtgctccac	tcaatacaca	aaggcccctc	tctacatctg	2280
gggatgcacc	tcttctttga	tccctggya	tagggcttc	tgagcaaagg	ccaaaaaatt	2340
atttgtgcctg	aaatttcccg	agagaattaa	gacagactga	atttgcgtat	aaaatattt	2400
tttaggaggg	ggatgttaat	agccgcacaa	aggggtccaa	cagcttttg	agttaggcatt	2460
tggtagagct	tgggggtgt	tgtgtgggg	tggaccgaat	ttggcaagaa	tgaaatggtg	2520
tcataaagat	gggaggggag	ggtgttttga	taaaataaat	tctagaaagc	ttaaaaaaaaaa	2580
aaaaaaaaaa	a					2591

<210> 604
<211> 594
<212> DNA
<213> Homo sapiens

<220>						
<221>	misc_feature					
<222>	(520)..(520)					
<223>	n is a, c, g, t or u					
<400> 604						
ttttttttt tttttgtact	tttggtcata	gatccgca	ctactttgaa	cctggcacca	60	
aaaggcacaa	tatctgatac	cctgtacaag	agctattaga	gatgtgc	tatggatggg	120
caaaactgag	ccaatccac	ttaggaatgg	aaggcttgg	catggaaagg	aggatataaa	180
cgaggagttg	gaaaaaacg	caagccagt	ttttgctaga	gtggaaatga	aagtgggaat	240
gagggtctt	tttttagtcc	tctaaggacc	aggaagcaat	tttaaaaactt	ccttggttt	300
tctgaagca	gcatattcaa	aatgcgcagca	aaaactccta	acaactgcaa	aacccaaaaga	360
ggatcaaagc	tcaccaacat	cccttcttat	tgctgaaagg	ctctaaaatt	caggatgccc	420
tgttccctt	taaaaggaa	aataattaag	tctgatttat	ggtatcata	ccacatcaca	480
cttctaaaaa	aatattcaag	tgtgtgacca	ggggacgttn	gacaccattt	tattaacctt	540
caacttcagt	ggaaaaataa	aacctttcc	aagtgcattt	ttcatcacaa	gact	594

<210> 605
<211> 2338
<212> DNA
<213> Homo sapiens

<400> 605								
agcgcacg	tcg	ggcgtcg	ccctcg	accgaatcac	cgac	c	ccccagctgt	60

atttccaaaa tgtcgcttcc taacaagctg acgctggaca agctggacgt taaagggaag	120
cgggtcgutta tgagatcga cttcaatgtt cctatgaaga acaaccagat aacaaacaac	180
cagaggatta aggctgctgt cccaagcata aaattctgtc tggacaatgg agccaagtgc	240
gtagtcctta tgagccaccc aggcggccct gatggtgtgc ccatgcctga caagtactcc	300
ttaggccat ttgctgtaga actcaaatct ctgctggca aggatgttct gttcttgaag	360
gactgtgtag gcccagaagt ggagaaaagcc tgtgccaacc cagctgctgg gtctgtcata	420
ctgctggaga acctccgctt tcatgtggag gaagaaggga agggaaaaga tgcttctggg	480
aacaaggta aagccgagcc agccaaaata gaagtttcc gagcttact ttccaagcta	540
ggggatgtct atgtcaatga tgctttggc actgtcaca gagcccacag ctccatggta	600
ggagtcaatc tgccacagaa ggctggtggg ttttgatga agaaggagct gaactacttt	660
gcaaaggct tggagagccc agagcaccct ttccctggca tcctggcg agctaaaggta	720
gcagacaaga tccagctcat caataatatg ctggacaaag tcaatgagat gattattgtt	780
ggtggatgg ctttacctt ccttaaggta ctcaacaaca tggagattgg cacttctctg	840
tttgatgaag agggagccaa gattgtcaaa gacctaattgt ccaaagctga gaagaatgg	900
gtgaagatta cttgcctgt tgactttgtc actgtgaca agtttgcata gaatgccaag	960
actggccaag ccactgtggc ttctggcata cctgctggct ggatggcctt ggactgtgg	1020
cctgaaagca gcaagaagta tgctgaggct gtcactcggg ctaagcagat tgcgtggat	1080
ggtcctgtgg ggttatttga atggaaagct tttgccccgg gaaccaaagc tctcatggat	1140
gaggtggta aagccacttc taggggctgc atcaccatca taggtggta agacactgccc	1200
acttgcgtg ccaaattggaa cacggaggat aaagtcaagcc atgtgagcac tgggggtgg	1260
gccagtttgg agctcctgga aggttaaaatc cttccctgggg tggatgtctt cagcaatatt	1320
tagtacttcc ctgcctttta gttcctgtgc acagccccata agtcaactta gcattttctg	1380
catctccact tggcatttgc taaaaccttc catgtcaaga ttcaatgttgc ggccaagaga	1440
tgcgtgcca ggaaccttta aacagttgc cagcatctca gtcatacttc actgcaccct	1500
ggatttgcat acattttca agatcccatt tgaattttt agtgcataaa ccattgtgca	1560
ttcttagtg catatattta tattttgcgtt gttaaaaaga aagtggccatc tgtagctta	1620
gttctttt gatgttagtt attatgatta gctttgtcac tgtttcaacta ctcagcatgg	1680
aaacaagatg aaattccatt tggatgttagt gagacaaaat tgatgtccca ttaagtaaac	1740
aataaaaatg tccattgaaa ccgtgatttt ttttttttcc ctgtcataact ttgttaggaa	1800
gggtgagaat agaatcttgc ggaacggatc agatgtctat attgtcaat gcaagaagtg	1860
gggcagcagc agtggagaga tggacaattt agataatgt ccattttta tcaaggccct	1920

actttatggc agacattgtg ctatgtctt tattctaact ttatattttt tcagttcac	1980
atgatcataa tttaaaaagt caaggctt aacaaaaaaag ccccaagccca ttcctcccat	2040
tcaagattcc cactccccag aggtgaccac ttcaactct tgagttttc aggtatatac	2100
ctccatgttt ctaagaataa tgcttatatt gttcaacttcc ttttttttta ttttttaaag	2160
aatctattt cataccatgg aggaaggctc tgttccacat atatttccac ttcttcattc	2220
tctcggtata gttttgtcac aattatagat tagatcaaaa gtctacataa ctaacacgc	2280
tgagctatgt agtatgtat gattaaattt actttatgtaa aaaaaaaaaa aaaaaaaaaa	2338

<210> 606
<211> 1723
<212> DNA
<213> Homo sapiens

<400> 606	
actccgaatg cgaagttctg tcttgtcata gccaaggcacg ctgttttttg gattgacctg	60
gcaggatggc gccaccacca gcttagatgc atcttagtgc gttcctggca gtgactccga	120
atcccgggag cgccaggagt gggacagagg cagccgcggc cacacccagc aaagtgtggg	180
gtcttccgc ggggaggatt gaaccacagag gcggggggccg aggagcgctc cttacacctca	240
tgggacagca cggacccagt gcccggccccc gggcaggggc cgcccccagga cccaggccgg	300
cgcggaaaggc cagccctcgg ctccgggtcc acaagacccctt caagtttgcgtcgccggg	360
tcctgtgtca ggtcgtaacct agtcagatgc caaccatcaa acttcatgtat caatcaatttgc	420
gcacacagca atgggaacat agcccttgg gagagttgtg tccaccagga tctcatagat	480
cagaacatcc tggagcctgt aaccgggtca cagaggggtt gggttacacc aatgtttcca	540
acaattttgtt tgcttgcctc ccatgtacag cttgtaaatc agatgaagaa gagagaagtc	600
cctgcaccac gaccaggaaac acagcatgtc agtgccaaacc aggaactttc cggaaatgaca	660
attctgtgtca gatgtgccgg aagtgcagca gaggggtgcc cagagggatg gtcaagggtca	720
aggattgtac gcccctggagt gacatcgagt gtgtccacaa agaatcggc aatggacata	780
atatatgggtt gatttttgggtt gtgactttgg ttgttccgtt gctgtgggtt gctgtgtca	840
ttgtctgtgtt ttgcacatggc tcaggttgc gagggggaccc caagtgcgtt gacaggggtt	900
gttttctggcg cttgggtctc ctacgaggcc ctggggctgtca ggacaatgtt cacaacggaga	960
ttctgagca cgcagactcg ctgtccactt tgcgtctgtca gcagcaatgtt gaaaggccagg	1020
agccggcaga ttgcacaggt gtcaactgtac agtccccagg ggaggccacag tgcgtgtgtt	1080
gaccggcaga agctgaaggg tctcagagga ggaggctgtt ggttccagca aatgggtgtt	1140
accccaactgtca gactctgtatg ctgttcttttgc acaagtttgc aaacatcgttgc cccttttact	1200

cctgggacca	gctcatgagg	cagctggacc	tcacgaaaaa	tgagatcgat	gtggtcagag	1260
ctggtagcagc	aggcccaggg	gatgccttgc	atgcaatgc	gatgaaatgg	gtcaacaaa	1320
ctggacggaa	cgccctcgatc	cacaccctgc	tggatgcctt	ggagaggatg	gaagagagac	1380
atgcaaaaga	gaagattcaag	gacctcttgg	tggactctgg	aaagttcatc	tactttagaa	1440
atggcacagg	ctctgccgtg	tccttggagt	gaaagactct	tttaccaga	ggtttcctct	1500
taggtgttag	gagttataac	atatttagtt	ttttttttt	ttaacatgt	tacaaagtaa	1560
atttttagcc	aggtagtgc	gctcatgc	gtatcccag	cactttggga	ggctgaggcg	1620
ggtggtatc	ttgaggtagc	aagttcaaga	ccagcctgac	caacatcg	aatgcccgtc	1680
tttacaaaaa	aatacaaaaa	ttaactggaa	aaaaaaaaaa	aaa		1723

<210> 607
<211> 1449
<212> DNA
<213> Homo sapiens

<400> 607						
ctggatagaa	cagctcaagg	cttgccactt	cgggcttctc	actgcagctg	ggcttggact	60
tcggagttt	gccattgcca	gtgggacg	tgagacttc	tccttcaagt	acttggcaga	120
tcactctctt	agcagggtct	g	ccgggatga	agctggttc	cg	60
atgtacctgg	gttcgctcg	c	ttcccttaggc	gctgacac	ctcggttgg	240
gagtttcgaa	agaagtggaa	taagtggct	ctgagtcgt	ggaagaggg	actgcggatg	300
tccagcaget	accccacccg	g	tcgacgt	gtgaaggccg	ggcctgccc	360
cgccccccagg	acatgaagg	tgccctc	tgca	acagcag	ggatgccc	420
cgcacccgag	tcaagcgta	ccggcc	atgaa	acttcc	ccggacgtt	480
ggctgcccgt	tcgggacgt	cacgg	tgac	accagatcta	ccagttcaca	540
gataaggaca	aggacaacgt	cgcccc	cg	gccc	ctacggcc	600
cgccgc	g	ccct	cg	cc	ttt	660
caagcacacg	ggg	cc	cc	cc	ttt	720
ggcgc	ccat	gt	ac	ttt	ttt	780
gtacaaggaa	tagtcgc	gca	agc	ttt	ttt	840
gacttcc	cg	gg	gg	ttt	ttt	900
aggcacc	cc	gg	gg	ttt	ttt	960
tccttagct	tg	ct	cg	ttt	ttt	1020
ttgc	cc	gg	gg	ttt	ttt	1080
tctgagccac	agcc	gt	tc	tt	ttt	

gcgcaaggct cactattact tgaactttcc aaaacctaaa gaggaaaagt gcaatgcgtg	1140
ttgtacatac agaggtaact atcaatattt aagtttggtg ctgtcaagat ttttttggta	1200
acttcaaata tagagatatt ttgtacgtt atatattgtt taaaggccat ttaaaagca	1260
attatattgt ctccttat tttaaqacgt gaatgtctca gcgagggtgt aagttgttcg	1320
ccgcgtggaa tgtgagtgtg tttgtgtca tgaaagagaa agactgatta ctcctgtgt	1380
ggaagaagga aacaccgagt ctctgtataa tctatttaca taaaatgggt gatatgcgaa	1440
cagcaaaacc	1449

<210> 608
<211> 498
<212> DNA
<213> Homo sapiens

<220>	
<221> misc_feature	
<222> (11)..(39)	
<223> n is a, c, g, t or u	
<220>	
<221> misc_feature	
<222> (380)..(475)	
<223> n is a, c, g, t or u	
<400> 608	
aggtaacaagg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnna gatcaaataa agactaatga	60
tattgatttg gatacggta ataagctgga caagatgtt aggagagggg gtaaaacaag	120
tttacattaa atatactaac aataacgatt gggtacagat ttgttaagtga tggtgatgga	180
taaaaaactga ataagaatac aaacctaaaa ttaatgaaa atgaaaaaaaa tatcttttat	240
cttttttaat aaagaagggg gacggggctc tggattagta taaatataac aataatggaa	300
aaggtaata tgtaaggaa taagaattaa ttcattaa agcctaaaa caaccatgaa	360
aaggattaga aacattttan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngattt	480
aaaaaaaaaaa aaaataga	498

<210> 609
<211> 3216
<212> DNA
<213> Homo sapiens

<400> 609	
gcggacggtg agtggggatg gactggagtt gaagagctcg agatgaaggg cttgaggcg	60
tgtgttattt gtttcttca agcatttggt cgagattaag aattaaaaat gtcatccaaa	120

caagaataa tgagtgacca cggtttaga cgggttgc aa aggacccgag atttggaa	180
atgccgaaa agatcgaaa agtcaaatt gacaagagat ttcgagccat gttcatgac	240
aagaagttca agttgaacta tgccgtggat aaaagaggc gcccattag ccatagcact	300
acagaggatt tgaagcgtt ttacgacctt tcagattctg attccaatct ctctggtaa	360
gatagcaaag cattgagtca aaagaaaata aagaagaaaa aaacccagac taaaaaagaa	420
atcgattcaa aaaatctagt tgagaaaaag aaagaaacca agaaggctaa tcacaagggt	480
tctaaaata aaactgattt agataattct ataggaatta aaaaatgaa aaccatcatgt	540
aaatthaaga tagattcaa cataagtcc aagaaggata gcaaagaatt tacacaaaaa	600
aataagaaag agaaaaaaaaa cattgttcaa catactacag actttctct cgaagaaaaa	660
caaaggacat tagactcagg cacctctgaa attgtgaaat ctcccagaat cgagtgttct	720
aagacaagaa gagaatgc atcagtggg caactcataa tgacaagaga cagtgatgg	780
tatgaaaact caacagatgg tgaaatgtgt gacaaagatg ctctggagga agattcgaa	840
agcgtagtg aaattagaaag tgatgaggaa tctgaaaatg aaattacaag tgggtttaga	900
gcttcagggt atgacgatgg aagtgaagat gatgaagagg aggatgaaga tgaagaggag	960
gatgaagatg aggatagtga ggatgatgat aaaagtgaca gtggccctga tcttgcagg	1020
ggtaaaggaa atatagaaac tagttctgaa gatgaagatg atacggcaga tttgtttcca	1080
gaagaatctg gtttgagca tgcttggaga gaatttagata aagatgtcc tcgtgctgat	1140
gagattacac gtcgatttgc agttttaac atggactggg atagattaaa ggaaaaagat	1200
ttgctggctc tttcaattc atttaaaccc aaaggagggtg taatatttc cgtcaagata	1260
tatccttcag aattttggaaa ggagaggatg aaggaagagc aagttcaagg accagtagag	1320
ctattaagta ttccctgaaga tgccccagaa aaagactgga cgtctagaga aaaatttgaga	1380
gattatcaat tcaaacgact gaagtactat tatgcgttag tagactgtgat ttctccggaa	1440
acagctgatgaa aattttatgaa ggattgtat ggcctggat ttgaaatgtt ttgttcttcc	1500
atagatctaa ggtttataacc agatgtatatt actttgtat atgagcctaa ggatgttagcc	1560
tcagaagtga atttaacagc atataaacca aaatattca cttctgctgc aatggaaaca	1620
tcaacgggtgg aaatcacttg ggatgagact gatcatgaaa gaattacaat gctcaacagg	1680
aagtttaaaa aggaagagct ttggacatg gatgttcaag cctacttgc ttctcttagt	1740
gaagatgaaag aggagataga agaggagctt caaggtgtat atgggtcaat tgtagaaagaa	1800
gatggaaaaa caaagaaaag tcagaaggat gatgaagaac aaattgtcaaa atacaggcag	1860
ctcttgccagg ttattcaaga aaaagaaaag aaaggcaag aaaatgtat gggaaatggaa	1920

attaaatggg ttccagggtct taaagaaaagt gcagaagaga tggtcaaaaa caaattggaa	1980
ggaaaaggata aactgacccc ttgggaacaa ttttagaga agaagaaaaga gaaaaaaaaa	2040
ctgaaaaggaa aacagaaggc tcttgcgtcaa gaggccagtg aagaggaact tccctctgtat	2100
gttgatttga atgaccata ctttgcgtaa gaagttaaac aaataggtat aaataaaaaaa	2160
tcgtaaaat ctgaaaaaaga tggcacatct ccagaagaag aaattgaat agaaagacaa	2220
aaggctgaa tggctttgt tatgtatggat gaggacgagg acagtaagaa acacttcaat	2280
tacaacaaga ttgtggagca ccagaatctg agcaaaaaga agaaaaagca gctcatgaaa	2340
aagaaggaat taatagagga tgactttgag gtaaatgtta acgtatgcacg gtttcaggca	2400
atgtacactt cccacttgcgtt caatttggac ccctcagatc ccaatttcaa gaaaacaaaa	2460
gctatggaaa aaatccttgc ggagaaggc cgccaaagag aacggaaaga acaagaactt	2520
actcaggcaa taaagaaaaa agagagttag attgaaaagg aatcacaag gaagtccatt	2580
gatcctgtt tgcataatgtt gattaaatct ataaaaacca aaacagagca gtttcaagca	2640
agaaaaaaagc aaaaagtcaa ataaactggat gttacttatt tttgaactga atacatctt	2700
tctaaaaatg tacaaaaata ataggaggga atattttatg ggaacaaagc tatcttcaa	2760
gaacatgaat aaaatcttt tctggacata gtaaaattt tctccataaa taattgtact	2820
taattgtgga tgactgacaa attttatttgc tatattccta cagatcagtc ataattaaat	2880
tacctgcatt atagggtta taaaatttt atattttaca atgttcagtt ctaactagtg	2940
gaaaatgtact ctatctttt aaaaggctgt ttacaattct gtgtaaaaat agagcagttat	3000
ctactcaagt ttgtgtaaat gttaggata atttgaaaaa tatatatatt taatacatta	3060
atttctctgg aagcaggagg catgtttaa taactattaa aataatttat ttttctagcc	3120
ataaaggatg gaagtcaaga actttttgtt gtttagtcat gttaaagtata gtttatgaaa	3180
ttaacttgta aataaaaatgt taaaatattt tcatta	3216

<210> 610
<211> 2155
<212> DNA
<213> Homo sapiens

<400> 610	
tgggggcgtt cgcctcggtt gcctcgccgc ctccactgga gctgttcgcg cctcccggt	60
ccccacccgcag cccacccggc agaggagtgc ctaccagcgc ccagtgcgt ctgtcagtc	120
gcaaaactctc tggcccccgc cccgggctgg gcgccaaata ccaggctacc atggctcaca	180
agactctctt cgctcttgc atcttaactg caggatggag ggtacagagt ctgcctacat	240
cagctccttt gtctgtttct cttccgacaa acattgtacc accgactacc atctggacta	300

gctctccaca aaacactgat gcagacactg cctccccatc caacggact cacaacaact	360
cggtgctccc agttacagca tcagcccaa catctctgc tcctaagaac atttccatag	420
agtccagaga agaggagatc accagcccg gttcgaattt ggaaggcaca aacacagacc	480
cctcacatcc tgggttctcg tcaacaagcg gtggagtcca cttacaacc acgttggagg	540
aacacagctt gggcactcct gaagcaggcg tggcagtc actgtcgac tccgctgctg	600
agcctccac actcatctcc cctcaagctc cagcctcatc accctcatcc ctatcaacct	660
caccacctga ggttttttgc gcctccgtta ctaccaacca tagtccact gtgaccagea	720
cccaacccac tggagctcca actgcaccag agtccccaa acaggagtc agtctgacc	780
acacacccac ttccatcgcc acagtcgacg cagtgccca ggagaaaaaca ccccaacaa	840
ctgtgtcagg caaatgtatg tgtgagtc tagacatgga gacaccacca ctttccag	900
ggtgatcatg caggaagtag aacatgcatt aagttcaggc agcateccg ccattaccgt	960
gacagtattt gccgtgtgc tgctgggtt tggagttgc gcctacctaa aaatcaggca	1020
ttcccttat ggaagacttt tggacgacca tgactacggg tccctgggaa actacaacaa	1080
ccctctgtac gatgactcct aacaatggaa tatggcctgg gatgaggatt aactgttctt	1140
tatttataag tgcttatcca gtagaattaa taagtacctg atgcgcattt aacgacaatc	1200
ttaagccctg ttttgttggatggtttgc ttgttttctt ccctctctc tggctgtac	1260
aacttccctt ttctgtaca agaagaaacca ttctttaag gtgagttggag gctgatttgc	1320
agctgaatg ggcacgctt gcaccagcca ggcacgacca ccatggtaa ggcttcttcc	1380
cccaactgcac gacccacttt gagaaggacc gaggaggagg atttgggttg ttttgttagg	1440
ggttacttcc agggaaatc ttcatgttgc ttatcttta aacttctatt taggaatatta	1500
cattaaatgat taatgagggg aaaggaaatg agtctctacga ggatccacc ctgcattggaa	1560
gagagcagggtt tttctcaga ttcttttta atctctatTT atctgggtgt ttctgacagg	1620
atgcgtccctg ctggctcta caagctggaa agcagcttct tagctgccta attaatgaaa	1680
gtgaaaata ggaagtgcgg tggagggggc cagcaggta cggggcagaa tctctcagg	1740
tgcgtgtggaa tctcagtgtc cccctacctg ttctccctc cagggcacct gtctctgtaa	1800
aggatgtctg ctctgttcaa aaggcagctg ggatcccagc ccacaagtga tcagcagagt	1860
tgcatttcca aaaaaaaagg ctatgatgatg agtctgatgtt tagagagaaa gggagaggca	1920
tgtacgggtgt ggggaagtgg aagggaaatg ggcgggggg aaggaggcta acctgcactg	1980
agtacttcattt taggacaagt gagaatcgcg tattgataat ggccagat atccacagct	2040
tggaggagcc cagagacegt ttgcatttata cccacacacg aactggtcca ctgctttact	2100
gtctgttggaa taatggctgt aaaatgttta aaaaacaaaa aaaaaaaaaaaaaaa	2155

<210> 611
<211> 2333
<212> DNA
<213> Homo sapiens

<400> 611
ggcacgaggc tagagcgatg ccgggcggga gttgcgtcgc ctttagtcctc ctggctgccg 60
ccgtcagctg tgccgtcgcg cagcacgcgc cgccgtggac agaggactgc agaaaatcaa 120
cctatcctcc ttcaggacca acgtacagag gtgcagtcc atgg tacacc ataaatcttg 180
acttaccacc ctacaaaaga tggcatgaat tgatgcttga caaggccca atgctaaagg 240
ttatagtgaa ttctctgaag aatatgataa atacattcg tccaagttggaa aaagtatgc 300
aggtggtggaa tgaaaaatttgc cctggcctac ttggcaactt tcttggccct tttgaagagg 360
aatatgaaaggg tattggccgtt gttactgata tacctttagg agagatttt tcattcaata 420
ttttttatgaa attatttacc atttgtactt caatagtagc agaagacaaa aaaggtcata 480
taatacatgg gagaacatg gattttggag tattttttgg gtggacata aataatgata 540
cctgggtcat aactgagcaa ctAAAACCTT taacagtggaa ttggatttc caaagaaaca 600
acaaaactgt cttaaaggct tcaagcttgc ctggctatgt gggcatgtta acaggattca 660
aaccaggact gttcagtctt acactgaatg aacgtttcag tataatgggt ggttatctgg 720
gtattctaga atggattctg ggaaagaaag atgcccattgt gatagggttc ctcactagaa 780
cagttctggaa aatagcaca agttatggaa aagccaaagaa ttatttgacc aagaccaaga 840
tatttggcccc agcctacttt atccttggag gcaaccagtc tggggaaagggt tttgtgtt 900
cacgagacag aaaggaaatca ttggatgtat atgaactcgta tgctaaaggcg ggttagatgg 960
atgtggtaca aacaaatttat gaccgttggaa aacatccctt cttcccttgc gatcgacaa 1020
cgccctgcaaa gatgtgtctg aaccgcacca gccaagagaa tatctcattt gaaaccatgt 1080
atgtatgtcct gtcaacaaaa cctgtctca acaagctgcg cgtatacaca accttgcata 1140
atgttaccaa aggtcaatttcc gaaaccttacc tgccggactg ccctgaccct tttatgggtt 1200
ggtgagcaca cgtctggccct acagaatgcg gcctctgaga catgaagaca ccatttcatt 1260
gtgaccgaac actgcagctg tctgaccctt caaagactaa gactcgcggc aggttcttctt 1320
tgagtcata gcttgccttc gtccatctgt tgacaaatggaa cagatctttt ttttttccct 1380
cctatcattt gattttctt atttacagat aacttcttta ggggaagttaa aacagtcatc 1440
tagaattcac tgagtttgc ttcactttga cattttggga tctgggtggc agtcaaccca 1500
tggtaactc cacctccgtg gaataaatgg agattcagcg tgggtgttga atccagcagc 1560
tctgtgtgag taacgggaca gtaaacactc cacattcttc agttttcac ttctacatc 1620

atatttgtat	gtttttctgt	ataacagcct	tttccttctg	gttctaactg	ctgttaaat	1680
taatatata	ttatcttgc	tgttattgc	agcgatatta	tttattaca	tatcattaga	1740
gggatgagac	agacattcac	ctgtatattt	ctttaatgg	gcacaaaatg	ggcccttgcc	1800
tctaaatagc	actttttggg	gttcaagaag	taatcagtat	gcaaagcaat	cttttataca	1860
ataatttgaag	tgttccctt	ttcataatta	ctctacttcc	cagtaaccct	aaggaaagttg	1920
ctaacttaaa	aaactgcac	ccacgttctg	ttaatttagt	aaataaaca	gtcaaagact	1980
tgtggaaat	aggaagtgaa	cccatatttt	aaattctcat	aagtagcatt	gatgtataaa	2040
acaggtttt	agtttgttct	ttagattgtat	agggagttt	aaagaaattt	tagtagttac	2100
taaaattatag	ttactgtatt	tttcagaaat	caaactgcct	atgaaaagta	ctaatagaac	2160
tttgttaacct	ttctaacctt	cacgattaac	tgtgaaatgt	acgtcatttg	tgcaagaccg	2220
tttgtccact	tcattttgtat	taatcacagt	tgtgttctg	acactcaata	aacagtcaact	2280
ggaaagagtg	ccagtcagca	gtcatgcac	ctgataaaaa	aaaaaaaaaa	aaa	2333

<210> 612
<211> 2010
<212> DNA
<213> Homo sapiens

<400> 612						
attcattccc	tgtcctcgga	tcacagtctc	ttctcaactac	agtgtcgccg	cctctgcctg	60
cgtagccccg	gccccatggc	tgttagccctcg	accctttgt	gccccccggcc	cgtctccg	120
ctcaccacgc	ctgcgc	ctc	cgtccacc	ttctttctc	agccgaggcc	180
ctccctgtctg	cagccatgg	gtcttccact	ttcgccttgg	tgcctgtctt	cgtccac	240
agcatctcc	agagcctcg	gtccagctgt	ggtgcagcc	ctcctgttgc	catcgtgc	300
cagcacctgt	gtcacagcca	tgtca	ctc	ggcgaccctg	gggctggagc	360
cctgtccca	gtctgtggc	ttggatggct	cgttagactat	gggaaactcc	ccccggcccc	420
tgccccctcg	gtccctatg	aggccttgg	gggagccctg	ggggccgggc	ttccagtgg	480
gggagagccc	ctggcagg	atggcttctc	tgactggatg	actgagcgag	ttgatttca	540
agctctcc	cctctgg	gac	ctcccttacc	ccccggcacc	ctcccccaac	600
ccccac	ctggaa	gcta	ttcccttcc	cctcaagaag	gagctggaa	660
cttcttctca	gatgg	cccc	accctcccc	ccgccc	actac	720
actaccacca	cccccttccc	tccccc	tttgc	ccctcc	acc	780
tgtcttggat	actctggact	tgctggccat	ctactggc	aacggggccg	ggcaggagga	840
agtggggatg	ccgccttgc	ccccggcaca	gcagcccc	cctcttctc	cacca	900

ttctcgccctg	gccccctacc	cacatcctgc	caccacccga	ggggaccgca	agcaaaggaa	960
gagagaccag	aacaagtccgg	cggtctctgag	gtaccgcccag	cggaagcggg	cagagggtga	1020
ggccctggag	ggcgagtgc	aggggctgga	ggcacggaat	cgcgagctga	aggaacgggc	1080
agagtccctg	gagcgcgaga	tccagtagct	caaggacctg	ctcatcgagg	tttacaaggc	1140
ccggagccag	aggacccgta	gctgctagaa	gggcagggg	gtggcttctg	ggggctggc	1200
ttcagctctg	gcccattcat	ccccctgct	ctacattcat	tccaaacccc	tctcgccgg	1260
gtcgagtggc	ttatcggtgt	aatcccagca	ctttgggagg	ccaaggcagg	aggatcggtt	1320
gaggccagga	ggtcaataacc	agcctgggca	acatagtaag	accctgtctc	tattaaaaaa	1380
aaaaaaatcaa	cccttcttcc	ccaccaaacc	acccaaactcc	tctctactct	tatcctttta	1440
tcctctgtct	ctgcttatca	cctctcttgc	gtatctctgg	atctcttcc	ctcccttctc	1500
gtccaaatca	tgaardatgtt	ggccttagtc	aatgtctatg	cccgtcacat	aacagccgag	1560
gcacccgggc	ccacaggaa	gcagctggga	gcttggaaac	ctggctcttt	gaatttcaaa	1620
cctggtttct	tacaggttgt	tgtctgggt	gggtggagtg	gccccccgg	agagctgaag	1680
gactatgcaa	atgaggaagt	aagtccgggc	gggcctttag	aaggggaccc	atatcctaca	1740
ggcaaaaagc	aggcttagtg	acccctggac	actacgctaa	gggagggagg	ctaaaggcgg	1800
ccaggtttgc	agtgccggaa	atgtccgggg	ccagttggag	gagggggcagg	gcaggcgtgt	1860
agttggtgac	tgggtgttca	tttttagctct	aagaaaaaaaa	atcagtggtt	cgtgaagggt	1920
ttggagaggg	gctgtgtctg	ggtgagggt	ggcggggat	tgatctttt	gggaggttat	1980
gagaaaaat	aaaacgaaac	atttcctctg				2010

<210> 613
<211> 1263
<212> DNA
<213> Homo sapiens

<400> 613	ggcacgagg	agagaagcag	gggatagact	cataggctgc	aacaaagggt	actctgtccc	60
tggacactgc	ctccgtactt	tcccttgc	tcaactggca	cagcatctcc	ctccagccct		120
cgctatgtgc	ctctggccatc	tccacccatc	atggagcaga	ggtgaggaga	ggcagccctgg		180
gaatatggag	accagtgaag	gaccaggct	ggagagcaca	gggtcctacc	tgggcatcca		240
gcagaggagc	cccttaaggc	caggagcacc	ccaagaggag	ggagggcagc	cagcctccat		300
tgacggcgg	cctccagccc	tccctactt	tgatcaccat	ttctctccag	gctttctgcc		360
tccgagatgt	ggcaccatag	tgcgggtcccc	tgtggctca	ccgcctact	tccacctccg		420
cccgccctgt	aatgtttata	taagcaggct	caaggacaa	gaaccatctg	cgaaaggaca		480

cacacaggaa attcataaaa gaaatctgaa tggataaaac cataaaaaa agtatgtttc	540
atttagtaatt aaagaaaggc aaatagagct ggaaggcatt ttcccttgc aaaccataac	600
agaaaaaaaaat aagacccaat attggcaag agactactga aaaaacattc ccatacatgg	660
cgtgtggag tatacatcg tgcaggcattt ctggatgaca gttgggtat atgtgtcatg	720
tggcctaaaaa gcctccatgt catttgacct acgaattctt tctttggaa tttatccaa	780
gaaaataactt aaggatttag ttagtgataa gatgttcattt ccagcattgc aatggagaaa	840
aatgggaagc aatgggtttgg ttgggaattt attccctttc tgctgtaaacg aaagtttgc	900
ataggggatt gcttaagtta attattgtat ctccatccg atgggtggat accgcgcaga	960
cattaaaaagt catgtaaaag aacatctgac tgaaagaaaa atgctcctt aatattaaaa	1020
ggttgtaaaa atagtgcatg ttatgtgatt tcaattttgt tttttttttt atgggtgtat	1080
gcttgatatac gtagagcaga taaaaaaagc ggaaggcata cttttttttt ttgagtggtt	1140
atctttgtat ggtggaaaca agtcaactgtat attttcatct ttgggttttc tgtaattcc	1200
aaattttcca cattttgtat ttcatataat aaatataatt taagaaaaaa aaaaaaaaaaa	1260
aaa	1263

<210> 614
<211> 447
<212> DNA
<213> Homo sapiens

<400> 614 ttttttttt ttttttttgg tgaaacaatt tattagccat ggttcagaat aataaaaaaa	60
taaagggtgtg gttttattta cacacactct tgaagctctt ggccatcagg ggacagcaaa	120
caccataactc agagtgtatgg aattaatagc atttagggta agcaaggacc agtgtgagac	180
tggggccagg aaatggggag ggaatgttag gagaaacagg gaatgacatt aaagaagaaa	240
cacacacctt ggagaattta tgactccctt ctctatgtca tggccagaag aggcaagtct	300
acagagatca aagtagcccta ggggtgccta gggatggggaa ggttgggtg gggactaagg	360
ggggctggat ttctttttggg ggttagtcaac tctaagacgg actgtgtgtga tggctgtca	420
actgtgacta tactaaacccg gcatcaa	447

<210> 615
<211> 2372
<212> DNA
<213> Homo sapiens

<400> 615 gcacccgcgc agcttggctg cttctggggc ctgtgtggcc ctgtgtgtcg gaaagatgg	60
---	----

tgacctactt	tggtagtgga	atagtgaata	cttactataa	tttgacttga	atatgttagct	1980
cateccttac	accaactcct	aattttaaat	aatttctact	ctgtcttaaa	tgagaagtac	2040
ttggttttt	tttcttaaa	tatgttatatg	acatTTaaat	gtaaacttatt	atTTTTTtg	2100
agaccgagtc	ttgcTctgtt	acccaggctg	gagtgcagtg	ggTgatcttg	gctcactgca	2160
agctctgcc	tccccgggtt	cgcaccattc	tcctgcctca	gcctccaaat	tagcttggcc	2220
taacagtcatc	tgcaccaca	cctggctaat	ttttgtact	tttagtagag	acagggttcc	2280
accgtgttag	ccaggatggt	ctcgatctcc	tgacctcgtg	atccgcccac	ctcgccctcc	2340
caaagtgctg	ggattacagg	catgagccac	cg			2372

<210> 616
<211> 3198
<212> DNA
<213> Homo sapiens

<400> 616						
ccgcatgctc	ccgtatcttt	ggtaacgctc	gtcagccgg	cgccgcgcgc	ctccagccgt	60
gtgccgtat	gggagtcccg	cggttcttcc	gctggctcg	ccgcaagtac	ccgtccatca	120
tagtcaactg	cgtggaagag	aagccaaag	aatgcaatgg	tgtaaagatt	ccagttgatg	180
ccagtaaacc	taatccaaat	gatgtggagt	ttgataatct	gtatTTggat	atgaatggaa	240
tcatccatcc	ctgtactcat	cctgaagaca	aaccagacc	aaaaaatgaa	gatgaarda	300
tgggtcaat	ttttgagttac	attgacagac	ttttcgtat	tgttaagacca	agaagacttc	360
tctacatggc	aatagatgga	gtggcaccac	gtgtaaaaat	gaaccagcag	cgttcaagga	420
ggttcaggc	catcaaaaga	ggaatgaaag	cagcagtcg	gaagcagcga	gtcaggaaag	480
aaatatggc	aaaagggtggc	tttcttcctc	cagaagaaat	aaaagaaaga	tttgcacgca	540
actgttattac	accaggaact	gaattcatgg	acaatcttgc	taaatgcctt	cgcttattaca	600
tagctgtatcg	tttaaataat	gaccctgggt	ggaaaaattt	gacagttatt	ttatctgtatg	660
ctagtgtcc	tggtaagga	gaacataaaa	tcatggatta	cattagaagg	caaagagccc	720
agcctaacca	tgacccaaat	actcatcatt	gtttatgtgg	agctgtatgt	gatcttattac	780
tgttgttgcct	tgcacacat	gaaccgaact	ttaccattat	tagagaagaa	ttcaaaccac	840
acaggcccaa	accatgtggt	ctttgtatc	agtttggaca	tgaggtaaaa	gattgtgaag	900
gtttgtcaag	agaaaagaag	ggaaagcatg	atgaacttgc	cgatagtctt	ccttgtcag	960
aaggagagtt	tatcttcctt	cggcttaatg	ttttctgtga	gtatTTggaa	agagaactca	1020
caatggccag	cctaccattc	acatTTgtatg	ttgagaggag	cattgtatgc	tgggtttca	1080
tgtgtttctt	tgtggaaat	gacttctcc	ctcatttgcc	atcgatgtatg	attagggaaa	1140

atgcaattga ccgtttgggt aacatataca aaaatgtggt acacaaaact gggggttacc	1200
ttacagaaag tggtatgtc aatctgcaa gagtacagat gatcatgtta gcagttggtg	1260
aagttaggaa tagcattttt aaaaagagaa aggatgtga ggacagttt agaagacgac	1320
agaaaagaaaa aagaaagaga atgaagagag atcaaccgc ttctactcct agtggaatat	1380
taactcctca tgccttgggt tcaagaaatt caccagggttc tcaagtagcc agtaatccga	1440
gacaaggcgc ctatgacatg aggatgcaga ataactctag tccttcgata tctcctaata	1500
cgagtttac atctgatggc tccccgtctc cattaggagg aattaagcga aaagcagaag	1560
acagtgcacg tgaacctgag ccagaggata atgtcaggtt atggaaagct ggctgaaagc	1620
agcggtacta caagaacaaa tttgatgtgg atgcagctga tgagaaattc cgtcggaaag	1680
ttgtgcgttc gtacggttcaa ggactttgcg gggttcttag atattattac cagggctgtg	1740
cttcctggaa gtggatttat ccatttcatt atgcaccatt tgcttcagac tttgaaggca	1800
ttgcagacat gccatctgaa tttgaaaagg gtacgaaacc gtttaaaccctt agaacaac	1860
ttatgggggt atttccagct gcaagtggta attttctacc tccatcatgg cggaaagctca	1920
tgagtgtatcc tgattctagt ataatttact tctatctga agattttgc attgatttga	1980
atggaaagaa atatgcattgg caaggtgttg ctctcttgcg attcgtggat gagcgaaggc	2040
tacgagctgc cctagaagag gtatacccg acctcactcc agaagagacc agaagaaaca	2100
gccttggagg tgatgtctta tttgtggggaa aacatcaccc actccatgc ttcatttttag	2160
agctgtacca gacagggttcc acagagcccg tggaggtacc ccctgaacta tgtcatgggaa	2220
ttcaaggaaa gttttctttg gatgaagaag ccattttcc agatcaaata gtatgtctc	2280
ctgttccat gttaaggat ctgacacaga acactgttagt cagtattaaat tttaaagacc	2340
cacagtttgc tgaagattac atttttaaag ctgtaatgtc tccaggagca agaaagcccg	2400
cagcagtaact gaaacctagt gactggggaa aatccagcaa tggacggcag tggaaaggcctc	2460
agcttggctt taaccgtgc cggaggctcg tgcacctgga tcaggcagcc ttcaggactt	2520
tggccatgt gatgccaaga ggctcaggaa ctggcattta cagcaatgtc gcaccaccac	2580
ctgtgactta ccaggaaac ttatacaggc cgcttttgcg aggacaagcc cagattccaa	2640
aacttatgtc aaatatgagg ccccaggatt cctggcgagg tccctctccc cttttccagc	2700
agcaaagggt tgacagaggc gttggggctg aacctctgtc cccatggaaac cggatgtctc	2760
aaacccagaa tgcagccttc cagccaaacc agtaccagat gctagctggg cctgggtgggt	2820
atccaccccg acgagatgtat cgtggaggaa gacaggata tccagagaa ggaaggaaat	2880
accctttgcc accaccctca ggaagataca attggaaatta agctttgtat aagctttccc	2940

aaatcccttc atcattctac agtttatgc tatttgga aagatttctt tctcaaggtag	3000
tagttttaa taaaactaca gtatcttgt tattttttt aactgtgtat atttctactg	3060
atctgatctc actgtttatg ttgcattcca aagatgtatg ttgcataata cagtggatct	3120
gaatttatta atgcttataa acacatttga ggaataggag gtccgggttt tccataatgg	3180
gtaaaatgga accagctg	3198

```
<210> 617
<211> 422
<212> DNA
<213> Homo sapiens

<400> 617
tgagtgtaaa gaaaggaaaa ctccctgtat catccccctcc ccgtggactg cttcaattct      60
atcggggaca ggccaggtcccc tggaggctgc aaggagccac aaacctttcc cagtcacac      120
tctgcaccccc tcagtcctcg ctgctaaaga atcagactca ggttagatggg gtgtccacag      180
tctgtcttcata ttaccggatc ataccggta gcatggcccg agagagccct tatctctccc      240
caccttaaaa ccctcagcat cacacagcag gaaccagttcc acagggttta ccaaggatac      300
gcagtgaaaa cagaataatg tctgttacaa accccctaaaa cctgagatgg ctgaagagcc      360
agattccctgc accccatcg actccccccag gcagtgggag atgaccaaaa gccccatcc      420
cc                                     422
```

<210> 618
<211> 287
<212> DNA
<213> Homo sapiens

<210> 619
<211> 515
<212> DNA
<213> Homo sapiens

```
<400> 619
ttttttttt tttttttttt tttttttttt tctgccta at ggcatgagag ctccatgaag 60
gaattttata gatacacccct gattctccac tgccctaaca cacgatactg agttgtcaat 120
```

gtccacattc	agcacccaggg	gaaattcggt	catcacatga	catgcctca	ttaaagctgt	180
cagcataact	ttaccaaaca	agttatataa	caaccaaga	gccactggta	caggataata	240
ttcagaatgt	gacatgtaaa	aatttgcata	agttagaatat	atttttatg	tttgtgaaca	300
aaagaaaatt	gaaagaattha	aagcaatcca	agggcctaga	agcaagtgaa	ttctctgata	360
cctgtgatgt	aggctacttt	aggacagccc	atgaatccat	tcctcggtt	gttctgagct	420
ccttgagaaa	tggcccccaac	tgggtttttg	gagtgaacct	ggttcaatac	agattgcctt	480
aggatgttca	ctgaaagttt	cggcttgctc	tggac			515

<210> 620
<211> 1843
<212> DNA
<213> Homo sapiens

<400> 620	ggaggagggt	gcggcgctgg	agctcctccc	ggggaccaggc	gaccggggg	gcgagcacgt	60
cgctccgcac	cgctcttccc	ccagccgctg	agccgtccct	tctcgccatg	tcccagagca		120
ggcacccgcg	cgaggccccg	ccgctggagc	gcgaggacag	tgggaccc	tcc	agtttgggg	180
agatgataac	agctaagcca	ggaaaacac	cgattcaggt	attacacgaa	tacggcatga		240
agaccaagaa	catcccgatt	tatgaatgt	aaagatctga	tgtgcaaata	cacgtgccc		300
ctttcacctt	cagagtaacc	gttggtaca	taacctgcac	aggtgaaggt	acaagtaaga		360
agctggcgaa	acatagagct	gcagaggctg	ccataaacat	tttggaaagcc	aatgcaagta		420
tttgcttgc	agttcctgac	cccttaatgc	ctgacccttc	caagcaacca	aagaaccagc		480
ttaatcctat	ttgttcatta	caggaatttg	ctattcatca	tggctggaga	cttcctgaat		540
atacccttcc	ccaggaggga	ggacctgctc	ataagagaga	atataactaca	atttgcaggc		600
tagagtcatt	tatggaaact	ggaaaggggg	catcaaaaaa	gcaagccaaa	aggaatgctg		660
ctgagaaatt	tcttgccaaa	tttagtaata	tttctccaga	gaaccacatt	tctttaacaa		720
atgttagtagg	acattcttta	ggatgtactt	ggcattcctt	gaggaattct	cctggtgaaa		780
agatcaactt	actgaaaaga	agcctcccta	gtattccaaa	tacagattac	atccagctgc		840
ttagtgaat	tgccaaggaa	caaggtttt	atataacata	tttggatata	gatgaactga		900
gcgc当地atgg	acaatatcaa	tgtcttgcgt	aactgtccac	cagccccatc	acagtctgtc		960
atggctccgg	tatctcttgcgt	ggcaatgcac	aaagtgtatgc	agctcacaat	gtttcgagt		1020
atttaaagat	aatagcagaa	agaaagttaaa	tctggagcaa	ctaaaaaat	ctttcagtag		1080
cacataaaaa	gttccccctt	ggccccc	caagtaaaac	ttttaccgt	gtgtttatgt		1140
cttggttctta	aatctcttca	tagattccat	caacactcca	gattnaatta	tctcctcata		1200

gttggattata agctttttt aatggcttca actttgtatc agtataactgt atttataaaac	1260
tttgtaccac aagagagagt gtagcaccca ttttacagtg ccatgcacat cagagaaga	1320
aactgcatgt ttgttgtga tgatgaaata aaaatgttag cgacagtctt tcttactgtt	1380
gtttaagctc ttctttgcac aaagctttt aaaggaaatt caaaggaaacg ccttttagaat	1440
tagagtcttg agggacacgca ctaacaggcc ttttattaatg atgattgatt gttaaatttc	1500
agggAACATG atgggtctgc tttgttattt aattcatgtt acaaagaact gttacgtatgg	1560
gattctgc tttttttttt aaagctactg acttgactgt catcctgttc ttgttagcca	1620
ttgtgaataa gattttatgt ttgtataatc ttgttatttac atatctctaa ttactttga	1680
aattcaaaagg tgaaaataaa aaatgtatgc ctaagtaaaa ttaaaaaaaaaaaaaaa	1740
aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa	1800
aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaccccc ggg	1843

<210> 621
<211> 267
<212> DNA
<213> Homo sapiens

<400> 621 ttttttttt tttttgcctc ttccacttgg tctgcagtc tttactttcc	60
tccaaatatac tgacccttgg gacttggta ttgctggct gctttggcc ctcaggctct	120
ttgcctgc tttctgagc tttccatagt cacagtctgg ttttaggcag aaactgtacc	180
tccatttgca atcaaccctt ttgcagctgt gccttacgct tttactgtt ttttaccaa	240
ttcatctgga acaaactaga aaaggaa	267

<210> 622
<211> 363
<212> DNA
<213> Homo sapiens

<220> <221> misc_feature <222> (316)..(316) <223> n is a, c, g, t or u	
<400> 622 tttgcctatc aggtgggtgt caacgaaggg gcccttcttc agcgaacgag tcatggccata	60
gcccttactt cttgcgacgc gagacgatga acgtctgcgt gcgcttgg ttcggagtgc	120
ggtagccctt cgtcagggtg ttccacggcg acacaggac ctggccctcg ccgggtgcggc	180
cttcgcacc accgtgcggg tgatccaccc gggttcatggc aacgccacga acggtcgggc	240
ggatgcctt ccagcggatc gcgcggcc tgcgcgtactg ggcggctg tgcgttctgt	300

tgctcaattc accganggtg gcgccgcgt cgtatgtcac gcggcggact tcgcccggacc	360
gca	363
<210> 623	
<211> 345	
<212> DNA	
<213> Homo sapiens	
<400> 623	
acaatttcac acaggagatc tcagacagat gactatatcc ttccctgggt acttgcaggg	60
taagcacatc ccctcgaaat agcagcagct ctaaacatga aattcttcct ggaggatttt	120
cttactcttg agttctattc taccaaattt tttgagact tactgtcagg cattcagaat	180
gtgagcaatg acaataattt acctacactt ttgcaacctac agtatgtcg gcccagttga	240
ttctcaaaac agttctggaa attagctata aaaatcccc catcttacag atgaggaagc	300
tcaggcttag aaaggcaaaa aaaaaaaagc cctatagtga gtcgt	345
<210> 624	
<211> 417	
<212> DNA	
<213> Homo sapiens	
<400> 624	
gcaaaggaaa atgaatattw attcaatgtc cagattgggg aggggtctgt gtgtttaaca	60
ggaaaagwta cagaaaaama cctatcacam aggaaaagat aaatatgtt gaytatytha	120
mmmagtgaaa cccataacca aaatttaaag gcaaattcac acaagtggaa atacagatgc	180
ccaaactatcg tacaaagrga accatgtwta aggtcactaa caagcaaaga attttmagtt	240
tttbbtgttt ttbgttgtt ttyatttgrg acggrgtytc gytcgtcac ccaggctggr	300
gtscagttgc gcatatctgg ytcactgaa cctccgcctc ctgggttcaa gcaattctct	360
gcctcagcct cccaagttagc tggdttaca ggcgccgc accacgcccc gctaatt	417
<210> 625	
<211> 2422	
<212> DNA	
<213> Homo sapiens	
<400> 625	
gtcagcctcc ttccacgc catattgggc cactaaaaaa agggggctcg tcttttcggg	60
gtgttttctt ccccccccccc tgtccccgct tgctcacggc tctgcgactc cgacgcccc	120
aagggttgg aagcgccgtgg ttccggggc tgcacccgc cagactcgga	180
cgggttttgc caccctctcc gcttgcctgg tccccctctcc tctccgcctt cccgctcgcc	240
atgcatttgc atcagcgag actcgccggc cggccgggg cttecccgc accccctgccc	300

tgtatggaaa aaccattta agtgtacctg tgtacataac tctgtaaaaa cactgaaaaa	2160
ttatactaac ttatTTATGT taaaagatt ttttataatct agacaatata caagccaaag	2220
tggcatTTT tggcatttg taaatgcgtgt gttgggtaga ataggTTTC cccttttg	2280
ttaaataata tggctatgc taaaaggTTG catactgagc caagtataat ttttGtaat	2340
gtgtgaaaaa gatGCCATT attgttacac attaagtaat caataaagaa aacttccata	2400
gctaaaaaaaaaaa aa	2422

<210> 626
<211> 3115
<212> DNA
<213> Homo sapiens

<400> 626	
ccaccatata ggtccccgtat ttcacattga taaggcctg tttcatttct cgtgacattg	60
ggtagaatga ggatcctgtt tcaatgggt cgctttaccc tgggactgac agggaggctc	120
tgaccatTTA gccaccaaAT gttaggtgtAG ttctcactct taggttcacc cgcgcggccga	180
tcgtccccca tacctcgccc atgcggcccc tgctgtact gcccctgctg ggctggctgc	240
tgctggccga agcgaagggc gacgccaagc cggaggacaa ctttttagtc ctcacgggtgg	300
ccactaagga gaccgaggga ttccgtcgt tcaagcgctc agctcagttc ttcaactaca	360
agatccaggc gcttggccta ggggaggact ggaatgtgga gaaggggacg tcggcagggtg	420
gagggcagaa ggtccggctg ctgaagaaag ctctggagaa gcacgcagac aaggaggatc	480
tggtatttctt cttcacagac agtatgtacg tgctgtttgc atcggggccc cgggagctcc	540
tgaagaagtt cggcaggccc aggagccagg tggtttctc tgctgaggag ctcatctacc	600
cagacccgcag gctggagacc aagtatccgg tggtgtccga tggcaagagg ttctgggtt	660
ctggaggctt catcggttat gcccccaacc tcagcaaact ggtggccgag tgggaggggcc	720
aggacagcga cagcgatcag ctgttttaca ccaagatctt cttggacccg gagaagagggg	780
agcagatcaa tatcaccctg gaccaccgct gccgtatctt ccagaacctg gatggagcct	840
tggatgaggT cgtgtcaag tttgaatgg gccatgtgag aegcggaaac ctggctatgt	900
acacectccc ggtccctgatc catggcaacg ggccaaccaa gctgcagttg aactacctgg	960
gcaactacat cccgcgccttc tggaccttcg aaacaggctg cacccgtgtgt gacgaaggct	1020
tgcgcagcct caagggcatt gggatgaag ctctgcccac ggtccctggtc ggcgtgttca	1080
tgcgaacagcc cacgcggTTT gtgtccctgt tcttccagcg gctccctgcgg ctccactacc	1140
cccaagaaaca catgegactt ttcatccaca accacgagca gcaccacaag gtcaggtgg	1200
aagagttctt ggcacagcat ggcagcgagt accagtcgtt gaagctggtg ggccctgagg	1260

tgccggatggc	gaatgcagat	gccaggaaca	tgggcgcaga	cctgtgcggg	caggaccgca	1320
gctgcaccta	ctacttcage	gtggatgctg	acgtggccct	gaccgagccc	aacagcctgc	1380
ggctgctgtat	ccaaacagaac	aagaatgtca	ttggccccgt	gatgaccggg	catggggcgc	1440
tgtgttgcgaa	cttctgggg	gctctcagtg	cagatggcta	ctatgcccgt	tccgaggact	1500
acgtggacat	tgtgcagggg	cggcggttgc	gtgtctggaa	tgtgccttat	atttcaaaca	1560
tctacttgc	caagggcagt	gccctgcggg	gtgagctgc	gtcctcagat	cttctccacc	1620
acagcaagct	ggaccccgac	atggccttc	gtgccaacat	ccggcagcag	gatgtgttca	1680
tgttccctgac	caaccggcac	acccttggcc	atctgccttc	cctagacagc	taccgcacca	1740
cccacctgc	caacgcac	tgggaggtgt	ttagcaaccc	cgaggactgg	aaggagaagt	1800
acatccacca	gaactacacc	aaagccctgg	cagggaaagct	ggtggagacg	ccctgcccgg	1860
atgtctattt	gttccccatc	ttcacggagg	tggcctgtga	tgagctggtg	gaggagatgg	1920
agcacattgg	ccagttgtct	ctgggcaaca	acaaggacaa	ccgcattccag	ggtggctacg	1980
agAACGTGCC	gactattgc	atccacatga	accagatcg	cttgagcgg	gagtggcaca	2040
aattccctgc	ggagttacatt	ggcccatgt	cgaggaaagct	ctaccggc	tactacacca	2100
ggggccatgtt	tgacccgtgc	tttgcgtcc	gctacaagcc	ttagtggcag	ccctcactga	2160
tgccacacca	tgatgcctcc	acccatccca	tcaacatcgc	cctgaaccga	gtcgggggtgg	2220
attacgaggg	cgggggctgt	cggttccctgc	gctacaactg	ttccatccga	gccccaaagga	2280
agggtgtggac	cctcatgcac	cctggacgac	tcacgcatta	ccatggggg	ctcccccacca	2340
ccaggggcac	ccgctacatc	gcagttctct	tcgtcgatcc	ctaattggcc	aggcctgacc	2400
ctcttggacc	tttcttcttt	gcccacaacc	actgcccagc	agcctctggg	acctcgggggt	2460
cccaaggaaac	ccagttccago	ctccctggctg	ttgacttccc	attgtcttg	gagccaccaa	2520
tcaaagagat	tcaaagagat	tcctgcaggg	cagaggccgg	aacacacctt	tatggctggg	2580
gtctccctgt	gtgttctgga	cccagcccc	ggagacacca	ttcactttta	ctgctttgt	2640
gtgactcgtg	ctctccaaacc	tgtctccctg	aaaaaccaag	gcccccttcc	cccaccccttt	2700
ccatgggggtg	agacttgagc	agaacagggg	cttcccaag	ttgcccagaa	agactgtctg	2760
gggtgagaagc	catggccaga	gttctccca	ggcacaggtg	ttgcaccagg	gacttctgt	2820
tcaagtttg	gggttaaagac	acctggatca	gactccaaagg	gctccctga	gtctgggact	2880
tctgcctcca	tggctggtca	tgagagcaa	ccgtagtccc	ctggagacag	ccactccaga	2940
gaaccccttg	ggagacacaa	gaggcatcg	tgccacagtc	gatcttctac	ttgcctgtgg	3000
ggagggggagt	gacaggtcca	cacaccacac	tgggtcaccc	tgtctggat	gcctctgaag	3060
agagggacag	accgtcagaa	actggagagt	ttcttattaa	ggtcattaa	accac	3115

<210> 627
<211> 2889
<212> DNA
<213> Homo sapiens

<400> 627	
agatccctgtg gttcaactgtg agacacctcgcc ctctctcgtc tgccctcacgc tgccccctcg	60
cacccccaag gtatgacggc atttgaacaa tgcacgtgcc catctagagc cttgggggtgg	120
gcctgtgaga gagtgccgc ccacccagg ccccaccagg tgcatagtcc tgcggctaag	180
tcagggcgt tgtaacaag gtcagaccc tccaactacc aggctgtgtt gtgacgaggc	240
tgctggagcc ccaggccaca tgacggaaat gggtaatcc acccacatg ggtgactctc	300
aatgtatac tagcccgta cacttagaca cccaaaatc aacgcggcag acgttgtatc	360
cccaaggaa ggacccccc gaacagacac gtgggacaat ggcaagcatg gccatccctg	420
aggacaatgg caggacccag agtgcccttc tcctcctcaa ggcataact ggccctcca	480
gatacaggga caacctttc ttcccacctc ggctgtaaac agacacgaca caggccatac	540
ccttggctag agtcaactgca acatgtatcca gagggtgact gtgaaaggag ccagcggggc	600
tgctgtcg gtttctgg agacacggaa atgggtacaa acttaaaaca tctggcaga	660
ggtctttggg ataaagtcca gaaaatcaca gctggctcca tcattcagga attgatttcc	720
cccatgacac catcgatgc aaccttgc tgcgcgcctc cagctctct tgattttccc	780
tctgagctca caaaaagaaa caaaagctca gagaggctga ataactttcc cagcttacac	840
ggaggagctg gtttgaatc cagacatcac actgtatcgc acgcagaccc gcagggttcc	900
atactttcc ggcatttcac gtacacctct ctccatctca ccgcctcacc ataggagggt	960
aggcctattc ctatccgcac aatctgacag gggaaatttag actcagagag gttaaatgtac	1020
ttgcctaagg ccacatacg cgtaatcagg gcagcaggga ttccaggccg agcaggcagg	1080
ccctgtatcc aggtctcttag cctgtgcggc agggaggctca gagctggaaa ccacttccac	1140
agcacaagga gactctgttt ggactgtgt tggcctcact tgacctctga cttccctggc	1200
cctcctgtga ccctgacagg tgtgtcgac ttctgaaggg tgggaaggcc tgcaaggggc	1260
ctgcgtgcat tctgtgtgca tcgaccagg acaccacgg tggctctct gagttcatca	1320
cgtcgatcat ccccgatctc ttctgtctca agtacttgc ttgtcaacat gcacagaagg	1380
gtgagacctg gccatgggtc tgctgtacat ttgttaacag ttggctctg attcaatagt	1440
ctgggtgggg cccaaactc tgcatctt tttctttct tttttttt ttgagacggc	1500
gtcttgcctt gttgcccagg ctggagtgc tggtgtcaat ctcagctcac tgcaacctcc	1560
ccctcctggg ttcatgcaat tctcttcct cagcctccca agtagctggg actataggca	1620

cgccgcacca	tgcctggcta	attttgtat	ttttagtaga	gatagggtt	caccatgcc	1680
gcccaggctgg	tctcaaactc	ctgacacctaa	gtgatctgcc	cgccctggcc	tcccaaagtg	1740
ctgggattcc	aggcatgagc	ccccgcaccc	gccagactct	gcatctctaa	agtgtctggga	1800
ttccgggtgt	gagcccccac	gcccggcaga	ctctgcacatct	ctaaaggcgct	cccaggatgat	1860
ctgatgctgc	catctggggg	accacgcttg	gagtaactgctg	gccctggcaa	accatcttt	1920
ccagggaaatct	gcatcttgct	ctgcttcct	ccccctggccag	cagctcagcc	ctgatcatct	1980
ctcacctgag	gcccattaaaa	gcctccaaat	cagccctctct	gccccggacc	cccaggctgt	2040
cacccgggtcc	tctcccgac	tgcaagccag	cgctgtctaa	ctgagcgacc	tggtttacat	2100
ttcagcatcc	ccccatgtat	tcctctgtgt	ccacaccagc	aagtctctga	tgcaacccgg	2160
cagccacatgt	catcataatac	agctgagctg	ctggtaagg	ggtagattcc	tgggcctcac	2220
ccctgacaga	tcctatccca	gccccctgccc	gagggggccca	ggaatgcagc	cagttcacca	2280
gctggccctgc	caaaggctgg	caatctctgg	gccttagaggg	ttgagaacccgg	tcaaggcagct	2340
cgccctggct	ccccctggag	ccacccttagc	ctggaaacgct	gcacaccaga	cagggtgtgt	2400
agagctctgt	gccattccca	aatgccccac	acccagcagc	gcctggaaatg	tgctcatgca	2460
gggttctctgt	gacatggaca	cacccccccttc	cccatctctac	ccacatgtcc	ccagcccccagg	2520
cctctgttccc	actccccccag	gatgccccaa	ccctccaagg	gaacaaagag	aatgtctttc	2580
cctttctcca	gaagccccagc	acccggggcca	catagtcaag	cgctttgtct	ttgaaacata	2640
aaaatagcta	tagaagggtct	ccgttagctg	gcatggcca	gagagagaac	atttccatata	2700
aatttagagct	taccctttca	tatggaaagt	tagacatttc	tctgtctaa	gogcctacgt	2760
agaatatgtat	atttgacctt	ctttggggga	aattttgat	tgtctttggg	atgataatata	2820
agaaatcccc	tcgagggtctt	ttaaaatgtat	aagaacagag	gtcccccataaa	ctaagtgacc	2880
ccaaatgtat						2889

<210> 628
<211> 449
<212> DNA
<213> Homo sapiens

```
<400> 628
ttttttttt tttttttcaa gcagtaaaat tccatcagaa aagaaaagct cttagacta 60
gcaatgtatg tatgggcac ttatgggta gaaacacatt cactgagaaa catttatttg 120
gaacctttc tggctcagc actgagttag gttctaggga ttccggagata aataaaacca 180
gttccagccc tcaaggcact caggggggca gagacataga gcagcaatca cattccagtg 240
aagaaaagtgt caaggtaaaat aatqqtctgg caqccaataaa qqqqgcataac cggacacttgac 300
```

cccatgtgct ggcccagagc acaggccctg ctctagactg ctttgggttc aaactcttc	360
tcttcactta ctagctgtg gtccttggc attttcttg acctctctgt gcctgagtt	420
cctcttctgt aaaatgaaaa ttataacag	449

<210> 629
<211> 7391
<212> DNA
<213> Homo sapiens

<400> 629	
gctgcgcage gctggctgct ggctggcctc gcggagacgc cgaacggacg cggccggcgc	60
cggttgtgg gctgcgcgc tgcagccatg accctcgacg cctgtccctc ggccctggcc	120
cgggacgtct aaaatcccc acagtcgcgc gcagctgctg gagagccgc cgctgcccc	180
tctgtcgccgc atcacactcc cgccccggga gctggagca gcgcggcag ccggcgcggcc	240
cgtgcaact ggggggtgtct gccagagcag ccccagccgc tgccgctgct acccccgatg	300
ctggccatgg cctggcgcccc cgcaaggccg agcgtcccg gggcgcccc gggcgctgg	360
ctcaagtctgg ggttgcctc gcagttgctg ctgctctgg ggccggcgc gggcttcggg	420
gacgagaaag agcggcgctg cgacccatc cgcacatcca tgcgcggaa cctcgctac	480
aacgtgacca agatgcacca cctgggtggg cacgagctgc agacggacgc cgagctgcag	540
ctgacaacctt tcacaccgc catccagtagc ggctgctcca gccagctgca gttcttcctt	600
tgttctgttt atgtgcacat gtgcacagag aagatcaaca tccccattgg cccatgcggc	660
ggcatgtgtc ttcaagtcaa gagacgctgt gaacccgtcc tgaaggaatt tggatttgcc	720
tggccagaga gtcgactg cagcaattc ccaccacaga acgaccacaa ccacatgtgc	780
atggaaaggcc caggtgatga agagggtccc ttacctcaca aaaccccat ccagcctggg	840
gaagagtgtc actctgtggg aaccaattct gatcagtaca tctgggtgaa aaggagccgt	900
aactgtgtgc tcaagtgtgg ctatgtatgc ggcttatacaca gccgtcgac caaggagttc	960
actgtatct ggatggctgt gtggccgc cttgtttca tctccactgc cttcacagta	1020
ctgacccatttc tgatcgattc ttcttaggtt tcctaccctg agcgcggccat catatttctc	1080
agtatgtgtc ataataattt tagcattgt tatattgtca ggctgactgt aggccggaa	1140
aggatatacct gtgatttga agaggcagca gaacctgttc tcatccaaga aggacttaag	1200
aacacaggat gtgcacataat ttcttgctg atgtacttt ttggaatggc cagctccatt	1260
tggtgggtta ttctgacact cacttggttt ttggcagcag gactcaaata gggctatgaa	1320
gccattgaaa tgcacagctc ttatccac attgcagctt ggccatccc cgcagtgaaa	1380
accattgtca tcttgattat gagactggtg gatgcagatg aactgactgg cttgtgtat	1440

gttggaaacc	aaaatctcg	tgccctcacc	gggttcgtgg	tggctcccc	ctttacttat	1500
ttggtcattg	gaactttgtt	cattgctgca	ggtttggtgg	ccttggtaa	aattcggta	1560
aatcttc	aaaaggatggac	aaagcacagac	aagtttagaa	gactgatgt	caagatggg	1620
gtgttctcag	tactgtacac	agttcctgca	acgtgtgtg	ttgcctgtt	tttttatgaa	1680
atctcca	act gggcacttt	tcggtattct	gcagatgatt	ccaacatggc	tggtgaaatg	1740
ttgaaaattt	ttatgtcttt	gttggtgccc	atcacttcag	gcatgtggat	ttggtctgcc	1800
aaaactcttc	acacgtggca	gaagtgtcc	aacagattgg	tgaattctgg	aaaggtaaag	1860
agagagaaga	gaggaaatgg	ttgggtgaag	cctggaaaag	gcagtgagac	tgtggtataa	1920
ggctagtcag	cctccatgt	ttcttcattt	tgaagggggg	aatgcagca	ttttggagga	1980
aatttctacta	aaagtttat	gcagtgaatc	tcagttgaa	caaactagca	acaattaagt	2040
gaccccccgtc	aacccactgc	ctccccaccc	gaccccgac	tcaaaaaacc	aatgattttg	2100
ctgcagactt	tggatgtatc	caaaatggaa	aagccagtt	gaggcttca	aagctgtgaa	2160
aaatcaaaac	gttgcact	ttagcaggtt	gcagcttgg	gcgtggaggt	cctgcctaga	2220
ttccaggaag	tccaggcga	tactgtttc	ccctgcagg	tgggatttga	gctgtgagtt	2280
ggtaactagc	agggagaaat	attaactttt	ttaacccttt	accattttaa	atactaactg	2340
ggtcttcag	atagcaaa	gcactataaa	cactggaaac	gctgggtca	aaaaagtgtt	2400
acaagagttt	tatagtttg	ctgatgtaa	ataaacatct	tctgtggc	gctgtctgt	2460
gtttagaact	tttgtgactg	cactccaa	aagtgggtt	agaatcttc	agtgccttt	2520
tcataaaaca	gttatttga	caaacaaaag	tactgtactc	acacacataa	ggtatccagt	2580
ggatttttct	tctctgtctt	cctctttaa	atttcaacat	ctcttttctt	ggctgctgt	2640
gttttcttca	ttttatgtt	atgactcaaa	aaaggatattt	ttatagaatt	tttgtactgc	2700
agcatgttta	aagagggaa	aaggaaagg	gattcaactt	ctgacaatca	cttaattcag	2760
agaaaaatga	gatttactaa	gttgacttac	ctgacggacc	ccagagac	attgcattga	2820
gcagtgggaa	cttaatatat	tttacttgc	tgattgcac	tatgcagac	ccagtctgg	2880
agagctgaaa	tgttaagttt	cttggcaact	ttgcattac	acagattac	tgtgtatatt	2940
tttgtgtgtca	attacaatta	aaagcacatt	gttggaccat	gacatgtat	actcaactga	3000
ctttaaaact	atggtaact	tcaacttgc	ttctcagaat	gatagtgc	ttaaaaattt	3060
ttttatttt	taagcataa	gaatgttatac	agaatctgg	ctacttaga	caatggagac	3120
tttttcagtt	ttataaagg	aactgaggac	agctaatacc	actacttgg	gctgtatatt	3180
ttccctagtaa	ttggcaaaagg	ctccctgtaa	gatttcaactg	gaggcagtgt	ggcctggagt	3240

atttatatgg tgcttaatga atctccagaa tgccagccag aaggcctgatt ggttagtagg 3300
gaataaaagtg tagaccatat gaaatgaact gcaaactcta atagcccagg tcttaattgc 3360
cttttagcaga ggtatccaaa gcttttaaaa ttatgcata cgttcttcac aagggggtac 3420
ccccagcage ctctcgaaaa ttgcacttct cttaaaaactg taactggcc ttctcttacc 3480
ttgccttagg ccttctaatac atgagatctt ggggacaaat tgactatgtc acagggttgc 3540
ctcccttgtaa ctcatcacctg tctgcttcag caactgtttt gcaatgacat ttatTTTatta 3600
attcatgctt taaaaaaaata ggaagggaaat cttttttttt tctttttttt ttttcaatc 3660
acactttgtg gaaaaacatt tccaggact caaaattcca aaaagggtggt caaattctgg 3720
aagtaagcat ttccctttttt taaaaattt ggTTTgagcc ttatGCCcat agtttgacat 3780
ttccctttct tctttctttt ttgtttttgt gtgggttcttgc agctctctga catcaagatg 3840
catgtaaagt cgattgtatg ttttggaaagg caaaagtcttgc gcttttgaga ctgaagttaa 3900
gtggggcacag gtggggccctg ctgctgtgc cagtcgtgagt accttggcta gactctgg 3960
cagggtccag gagcatgaga attgatcccc agaagaacca tttaactcc atctgatact 4020
ccattgccta tgaatgtaa aatgtgaact ccctgtgctg cttgttagaca gttccatata 4080
ctgtccacgg ccctggggca cgcacccagg ggcagagccct gccttactc acgctctgc 4140
ctgggtgtctt gggagttgtg cagggactct ggcccaggca ggggaaggaa gaccaggccg 4200
taggggactg gtcttgctgt tagagtatag aggtttgtaa tgcagttttc ttcataatgt 4260
gtcagtgatt gtgtgaccaa ggcagcatct acgagaaagc cagggcatgga gttaggtgatc 4320
gatacttgc aatgactaaa taataacaat aaaagagcac ttgggtgaat ctgggcacct 4380
gatttcttag ttttgagttc tggagctagt gttttgacaa tgctttgggt tttgacatgc 4440
cttttccaca aatctttgc cttttcaggg caaagtgtat ttgatcagaa gtggccatTTT 4500
ggatttagtag ccttagcaat gctacagggt tataggccctc tcctttcaca ttccagacaa 4560
tggagagtgt ttatggtttc aggaaaagaa ctttgtggct gaggggtcag ttaccagtga 4620
ccttcaatca actccatcac ttcttaatac ggtattttttt aaaaaaatca gttatTTTtat 4680
ttatttgatg ccgactgttag taaagccctg aaatagataa tctctgttct tctaactgat 4740
cttaggatggg gacgcacccca ggtctgtga actttactgt tcctctggaa aaggaggcagg 4800
gacctctggaa atccccatct gtttcaactgt ctccattcca taaatctttt cctgtgtgag 4860
ccaccacacc cagccctgggt ctctctactt ttaacacatc tctcatccct ttcccaaggat 4920
tccttccaag tcagttacag gtggtttaaa cagaaagcat cagtcgtgct tcgtgacagt 4980
ctctggggaaa atcccttagg aagactatga gagtagggcca caaggacatg ggcccacaca 5040
tcgttttgg ctttgcggc aattcaqqqc ttqqqqtatt ccatgtqact tgatataangta 5100

tttctagatc tctcccaagt gggcatggag gtgtttctga attttgtcta cctcacaggg	6960
atgttgtgag gcttggaaaag gtcaaaaaat gatggccct tgagtcctt gtaagaaagg	7020
tagatgaaat atcgatgtatc atctgaaaaa aagataaaat gtgacttccc ctgtctgtg	7080
cacgcgttgg gctggatgtct ctgtggcctt tcattgggtcc tcatgccacc ccacagctcc	7140
aggAACCTG aagccaatct gggggacttt cagatgttg acaaagaggt accaggcaaa	7200
cttccgtcta cacatgcctt gaatgaatttca aaggaaatgg accctgttcc	7260
taaggatgtatc caaaagtatc tctgcatega tgtctgtact gtaaatttct aatttatcac	7320
tgtacaaaga aaacccctt ctatTTATT ttgttattaaa ggaaaataaa gttttgtttt	7380
ttaaaaaaaaaa a	7391

<210> 630
<211> 1310
<212> DNA
<213> Homo sapiens

<400> 630 agacgcgcgat atgctggta tggcgccccg aaccgttctc ctgtgtctct cggcgccccct	60
ggccctgacc gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc	120
ccggccggc cgccggggaccc cccgttcat ctcaagtgggc tacgtggacg acacccagg	180
cgtgagggttcc gacagcgacg ccgcgagttcc gagagaggag ccgcggggcgc cgtggataga	240
gcaggagggg ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac	300
tgaccggagag agcctgcgga acctgcgcgg ctactacaac cagacgcagg ccgggtctca	360
cacctcccg agcatgtacg gctgcgacgt gggccggac gggcgccctc tccgcgggca	420
tgaccgtac gcctacgcacg gcaaggatta catgcctcg aacgaggacc tgctgtctcg	480
gaccgcgcgc gacacggcgcc ctcagatcac ccagcgcaag tggggggcgcccgtgaggc	540
ggagcagcg agagcttacc tggagggcgat gtcgtggag tggctccgca gataaccttgg	600
gaacggaaag gacaagctgg agcgcgctga ccccccaaaag acacacgtga cccaccaccc	660
catctctgac catgaggcca ccctgagggtt ctggccctcg gtttctacc ctgcggagat	720
cacactgacc tggcagcggtt atggcgaggaa ccaaaacttag gacactgac ttgtggagac	780
cagaccagca ggagatagaa cttccagaa gtggcgacgt gtgggtgtc cttctggaga	840
agagcagaga tacacatgcc atgtacagca tgagggctgtcc ccgaaggcccc tcacccttg	900
atggggccg tttcccaagt ccacgttccca catcgatggc attgtgtctg gctggctgt	960
ccttagcgtt gtgttccatcg gagctgtgtt cgctgtgtt atgtgttagga ggaagagttc	1020
aggtggaaaa ggagggagct actctcaggc tgcgtgcaggc gacagtgcacc agggctctga	1080

tgtgtctctc acagcttgaa aaggctgaga cagctgtctt gtgagggact gagatgcagg	1140
attttttcac gcctccctt tgtgacttca agagcctctg gcatctctt ctgcaaaggc	1200
acctgaatgt gtctgcgtcc ctgttagcat aatgtgagga ggtggagaga cagcccaccc	1260
tttgtgtccac tgtgaccctt gttcgcatgc tgacctgtgt ttccctcccc	1310
<210> 631	
<211> 320	
<212> DNA	
<213> Homo sapiens	
<400> 631	
gcggggctca tgccccagtca cttcggaaac gagagcgcgc ccaccacca gaaactggaac	60
tacacccacg cgctcgctcg cgacgggacg ccgtattacg tctccggcgt gggggcgtg	120
tacaaggcgt ccgacacacgtt ttcgttacag ctcgtcgctt acaacgggtg gaacgcctc	180
ggaaacccga acccgtacaa gtcgggtggg tatcgcgtcg agtggcaccc cagcgacacg	240
gtggccgtcg ccaacgcgcgc gcacgtcgcc atcgtegggt ctacaaggac cttcgcatct	300
tcgaagacct ggtggtcacc	320
<210> 632	
<211> 1281	
<212> DNA	
<213> Homo sapiens	
<400> 632	
cccgagaccta gaactaccca gagcaagacc acagctggtg aacagtccag gagcagacaa	60
gatggagaca aattctcttc tccccacgaa catctcttga gggacacctg ctgtatctgc	120
tggctatctc ttccctggata tcatacttta tctggattt gcaagtccact ttgtcttcgg	180
ggtcctggc aacgggcttg ttagtgggtt ggctggattc cggatgacac acacagtac	240
caccatcagt tacctgaacc tggccgtggc tgacttctgt ttcaccttca ctttgcatt	300
tttcatggtc aggaaggcca tgggaggaca ttggccttgc ggctggttcc tggcaatt	360
cgtctttacc atagtggaca tcaacttggttt cggaaagtgtc ttccctgatcg ccctcattgc	420
tctggaccgc tgggtttgcg tcctgcattcc agtctggacc cagaaccacc gcaccgttag	480
cctggccaag aagggtatca ttggccctg ggtgtatggct ctgctcctca cattggcagt	540
tatcatcgt gtgactacag tacctggtaa aacggggaca gtggcctgtca cttttaactt	600
ttcgccctgg accaacgcacc ctaaaagagag gataaatgtg gccgttgcca tggacgggt	660
gagaggcattc atccggttca tcattggctt cagcgacacc atgcccattcg ttgtgtcag	720
ttatgggctt attggccacca agatccacaa gcaaggcttg attaagtcca gtgcgtccctt	780
acgggtccctc tcctttgtcg cagcagccctt ttttctctgc tggccccat atcagggtgg	840

ggcccttata	gccacagtca	gaatccgtga	ttatttgcaa	ggcatgtaca	aagaaaattgg	900
tattgcagtg	gatgtgacaa	gtgcctggc	cttcttcaac	agctgcctca	accccatgtct	960
ctatgtcttc	atggccagg	acttccggaa	gaggctgatc	cacgccttc	ccgcccagtct	1020
ggagaggggc	ctgaccgagg	actcaaccca	aaccagtgac	acagctacca	attctacttt	1080
accttctgca	gagggtggagt	tacaggcaaa	gtgaggaggg	agctggggga	cactttcgag	1140
ctccccagtc	cagcttcgtc	tcacccgttag	ttaggctgag	cacaggcatt	tcctgttttat	1200
tttaggatta	cccaactcata	agaaaaaaaaa	aaaaaaaggct	tttgttcccc	tgattttgggg	1260
agaataaaca	gatatgagtt	t				1281

<210> 633
<211> 2298
<212> DNA
<213> Homo sapiens

<400> 633	cgagcgggttc	tcacccggccc	tctccgcacg	tccgcggcg	cctcagggtt	ccccggaca	60
gttgctgtgc	gacttggaca	gttagggagc	gcctccaaag	ttttcatcca	actgccaacc	120	
ccaaagcttc	cacccttctc	ccctcagaga	ggacgttta	tgccggggcc	ctttagaggc	180	
tcattgacaa	gctgcccc	ctgggttcccc	ctgagcagag	cctgtgacc	caattgcccc	240	
ccttgcggc	tttgtatgcct	agccatgtct	gcctcatct	caggcggctc	ccccagggtt	300	
ccatcggtg	ggaagaacgg	agtaacgagt	ctcacgcaga	aaaaggtctt	gagagcacct	360	
tgtggcgcac	ccagtgtaac	tgtgacgaaa	tctcacaagc	gaggaatgaa	aggggacact	420	
gtgaatgtgc	ggcggagtgt	ccgggtgaaa	accaagaatc	cacctcattt	cctggagatc	480	
acgccaccat	cttcagaaaa	gctggtctca	gtgatgcgt	taagtgcacct	ctctacagaa	540	
gtatgtact	caggtcaact	taaaatgaaac	cgttatgata	agaagattga	tagtctaatt	600	
aatgcgggtt	gttgtctgaa	gtctgaggtc	aagatgcaaa	aagggtgatcg	ccagatggcc	660	
aaaaggttcc	tggaggaacg	gaaggaagag	ctggaggagg	tggcccacga	actggctgag	720	
actgagcacg	agaacacgg	gttggaggcac	aacatcgac	gcatgaagga	ggagaaggac	780	
tttaccatac	ttcagaagaa	acacccataaa	caggagaagg	agtgcctcat	gtccaaagctg	840	
gtggaggcg	aatggatgg	ggctgcggct	gccaaggcagg	tcatggcctt	gaaggataacc	900	
atcgccaaacg	tgaaaacgg	gaaacaaatg	acctgcacgg	acatcaacac	cctgacaagg	960	
cagaaggaaac	ttctcctgca	gaagctgagc	acatttgagg	agaccaacccg	caccctccga	1020	
gacccctctg	ggaaacagca	ctgcaaagag	gattctgaaa	gactaatgga	gcaacaagg	1080	
gcactgctga	aacggctggc	ggaggccgac	tcagagaaaag	cgcgcctgt	gttactgctg	1140	

caagacaagg acaaggaggt ggaagagctc cttcaggaaa tacaatgtga gaaggctcaa	1200
gcaaagacag cctctcgagct ttctaaatcc atggagtcca tgcgctggca tttgcaggca	1260
cagttcggc ccaaagaggg tgagaacagt cgccctgtgca tgcatgattaa gaatctggag	1320
cgcagcgggata tcagcataa ggcaagaatgtt gaggccatca tggagcactg gaaggagttt	1380
aagcagaagg gagaccgaga caaaagagacg ttgaagaagg ccatccgacg ccagaaggag	1440
cgagccgaga agagcggagga gtatgctgag cagctacacg tgcaactcgc tgacaaggat	1500
ctttatgtcg ctgaagcttt atccactctg gaatcctgga ggagccgcta caaccaaggat	1560
gtaaaagaaa agggagacct tgagctggaa attatgtcc tgaatgaccg ggttaacagat	1620
cttgtaaaccc aacaacaaac cctggaggag aagatgcggg aagaccggga tagcctgggt	1680
gagagactac accgtcagac tgctgagtat tccgcattca agctggagaa tgagaggctg	1740
aaggccagct ttgtccaaat ggaggacaaa ctcaccagg cacacctcgaa ggtccagcag	1800
ctgaaggcct cagtgaagaa ctatgagggg atgattgaca actataagag tcaggtgtat	1860
aagaccagat tggaggctga tgaagtagct gcccagctgaa acgcgtgtga caaagagaac	1920
aagatcccta aagatgagat gaacaaagag attgaggcgg cacgaaggca gttccagct	1980
cagctggctg acctgcagca gctccctgac atcctgaaga tcacggggc gaagctggct	2040
gagtgccaaag accaactgca gggctatgag cggagaacaatcgc acgcgtgtga caaagagaac	2100
tcagacctgc gcagccgggt aaggactgg cagaaagggt cccacgaact gacccgagca	2160
ggggccccca taccaagatg agctgcacgc ccccaaggg aggactactt cttttttttt	2220
ggctgctgtct ttttaaaagg agttagctat catcgtgtt gtgaaataaa agtctgggt	2280
gccaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa	2298

<210> 634

<211> 359

<212> DNA

<213> Homo sapiens

<400> 634

tttttttttt tttttttttt tttttttttt tttttttttt taaaacaaaa agggctttat	60
taaaaccccc aaaaaaaaaact tttaacaaaa ggggacccat accatcccc aaaaaagttt	120
agctaaaaaa tggcaaacaa aaaggcggag gctttttta aaccccaaaa aataaggttc	180
cacaaaaaaag gacccgccaa aaccaaatta tagcggcaaa tttttttgg ccataaatag	240
ggatccccctt aaaaatcctt ggaaactcct tggcagttt aaggcccaaa ctaacccttg	300
tggggccagtg gctcaccttc ataaaaaaaaa ggaacccatt tggcaaaaaa attttggtt	359

<210> 635
<211> 240
<212> DNA
<213> Homo sapiens

<400> 635
cgcttcgac aagaccggca ccctcaccaa gggggagccc gaggtcacgg acgtcattgt 60
cgccgactc gatcgcgatc gggtcttgc gcctcgccgc gcactcgaac gagagtccga 120
acatcctctc gctcaggcgc tctgtcgcca cgtcgatgc accgtatgc cgccgttgcg 180
cgccaccgcg ttccgcaacg tcacggcat cgccgcctc gccgaggctcg acggccacca 240

<210> 636
<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (384)..(489)
<223> n is a, c, g, t or u

<400> 636
tgcccttccc ttgcgtggag agcccccttt cccctttcc tgcctttcc ccatggcccc 60
gagcatcttc cagcagaccc cagtgtatga ctcccttcata cctccccc aa gaatggggag 120
agggAACGAG cagagcctgt gcctgagcca tctcggtcaa cgccttcaac gcggggcttg 180
gagtccctggc ttggcactcc cttgcgtggt atcttggca aaccatgtg ggcctcgatt 240
ttcctactgg caccagagag agcaggacga cttcttcaaa ttcttgtgca aatacggcga 300
gaagaagtgc atgagaaaqt gctttataag ctgtatagct ctcttcata tgagagttatc 360
attgttagttc atctcacata accnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnnnc agaggaaa 498

<210> 637
<211> 443
<212> DNA
<213> Homo sapiens

<400> 637
tttttttttg gaagagatct ttattaatag agtgctttta ttaataattc ataccttgc 60
taagcggtaa aaacccagca gaggattaac ccatgccat ggtatttcaa actataaaga 120
ataaagtttt ctccctgtatt tgtaggaat tgcttgc tgcaagtaac agagaactga 180
aataaacatc atttaacaca agacacaat ttctttctgt ctcatgtaaa agaaacccaa 240
gcagcagtcg tggccccc agtatcatca gtgactgtgg ctcccttctt cttctgtatc 300

tgccatctc caagtgggt ttccaccctc acagtcacct caagatgcaa gaacactgct	360
ggtgcctecag ccattgcgtc tgcattcgca gcagaaaact ggaggaagcg ccatttgct	420
ctcccccaaa cttcccccta cat	443

<210> 638
<211> 450
<212> DNA
<213> Homo sapiens

cacccgtgaga gagcactttg cagatgactc taatgaacaa tccttgaaca aagaatttta	60
aaagatttaa tcttagttcat aacacagctt tatagctata gataagtcat ttaagecctc	120
tgagccttat cagtc当地 ggaatgttaa tatgtatag gaaatgaaga attggtaaaa	180
atactttgtg aaagaaacat aactttaaga tagtactata tctgaatccc ttgctgttcc	240
ctatatgggt ctttacacat cataaggccag caaataccctt ggtctgttgc aatggtaatg	300
ggatataattt tattaaaatc aaagtttgc tagggctggg aagcttacc aaaagaagaa	360
aaaattatct ttcttggta tgtttccctc ttactccac gacagttca ttattgtAAC	420
caggatcaa taaaagaaga aaggcagggtt	450

<210> 639
<211> 1048
<212> DNA
<213> Homo sapiens

<400> 639 gccagggtgt caggccgctc caagcccAGC ctggcccgct gcccACACCA tgacgctcct ccccggcctc ctgttctga cctggctgca cacatgcctg gcccACCATG accccctccct cagggggcac ccccacAGTC acggTACCC ACACTGCTAC tcggctgagg aactggccct cggccaggcc cccccacacc tgctggctcg aggtgccaag tggggcagg ctggctgt agccctggtg tccagctgg aggcaag ccacaggGGG aggcacgaga ggcctcAGC tacgacccAG tgccgggtgc tgccggccGA ggagggtgtg gaggcagaca cccaccAGCG ctccatctca ccctggagat accgtgtgga cacggatgag gacccgtatc cacagaAGCT ggccctcgcc gagtgctgt gcagaggctg tategatgca cggacggGCC gcgagacAGC tgcgtctcaac tccgtgcggc tgctccAGAG cctgtggtg ctgcggccGC ggcctgtc ccgcgacggc tggggcgtcc ccacacctgg ggccttgc ttccacaccc AGTTCACTCA cgtccccgtc gggtgcacct gggtgtgtcc cggttcAGTG tgaccGCCGA ggccgtgggg cccttagact ggacacgtgt gtccccaga gggcaccccc tatttATGTG tatttattgt	60 120 180 240 300 360 420 480 540 600 660 720
--	---

tatttatatg cctccccaa cactaccctt	gggtctggg cattcccggt gtctggagga	780
cagcccccca ctgttctct catctccagc	ctcagttagtt ggggttagaa ggagctcage	840
acctttcca gcccttaaag ctgcagaaaa	ggtgtcacac ggctgcctgt accttggctc	900
cctgtctgc tcccggttc cttacccta	tcactggct caggcccccg caggctgcct	960
cttcccaacc tccttggaaag taccctgtt	tcttaaacaa ttatthaagt gtacgtgtat	1020
tattaaactg atgaacacat ccccaaaa		1048

<210> 640
<211> 633
<212> DNA
<213> Homo sapiens

<400> 640		
ttttttttttttttttac ataactagaa taaaatttaa	tgtaaatgtg ccaaagagga	60
gaagaatca catgagattt acaaaaactta	catgaataa gaaaatgttc agctatgtaa	120
taaccaaagc ttcccttaact tggaaatctt	ggggacctag aaagtggat aacccaagcc	180
aaattccctt ggtgtcacag ttccctctat	accaggccag gcacttgcca atgacactgg	240
atgggggta agccctgggt gtgttgta	gtgtgtgacg tagtaggtga aaaacagcaa	300
agaggttaatt cttttattctc gagagcttcc	tcgtgcacat gatcagctt tgcacatgct	360
tgaaggaaaa acaacactat taaaatgtct	ttttaaaagt caaagctaaa tgagtatgca	420
ataaagcttt gagaaatgga aaagaaaatc	tatgaggaaa acgtcagctt gcttatccag	480
ggaatgagca ggacttaatt ctcatgccgg	catggggctg ccgggcaccc agctccttcc	540
ctgtgggtag aaaacaagtc cccaagttgc	tactgagcca aactgtaaag gccagtcagg	600
aaatgagcag cagtgcgaa tgggcctcgt	gcc	633

<210> 641
<211> 306
<212> DNA
<213> Homo sapiens

<400> 641		
gacactgtcc aaaggtttc catcctgtcc	tggaatcaga gttggaaagct gaggagcttc	60
agcctctttt atggttaat ggcacctgt	tctctctgt gaaaggctt gcaaagtca	120
attaagtttgcatgacctgt tatccctggg	gcccatttc atagaggctg gcccatttag	180
tgtatccaa aaacaatatg gaagtgcctt	ttgatgtctt acaataagag aagaagccaa	240
tggaaatgaa agagattggc aaaggggaag	gatgatgcca tgtagatcct gtttgacatt	300
ttttagt		306

<210> 642
<211> 2311
<212> DNA
<213> Homo sapiens

<400> 642
tagccagaaa agggggcggg aagggtctgta gggtaacttgt caattcgccg ccatgaacgt 60
ggttttgcgt gtgaagcagt acatttccaa aatgatacag gacagcgggc ctggtatgaa 120
agtacttctc atggataaag agacgactgg catagtgagt atggatataca cacaatcgga 180
gattctacag aaggaagtgt acctcttga acgcattgtat tctcaaaatc gagagatcat 240
gaaacacctg aaggcaattt gtttctcg acctacaaag gagaatgtgg attatattat 300
tcaggagctc cgaagaccca aatacactat atatttcatt tatttcgta atgtgatcag 360
caagagtgcgtac gtgaagtcat tggctgaagc tgatgaacag gaagttgtgg ctgaggttca 420
ggaattttat ggtgattaca ttgctgtgaa cccacatttg tttccctca atattttggg 480
ttgctgccag ggtcgaaattt gggatccagc ccagctatctt agaacaactc aagggttac 540
agctctcctt ttatctctga agaagtgtcc catgattcgt tatcagctct catcagaggc 600
agcaaagaga cttgcagagt gcgttaagca agtgataact aaagaatatg aactgtttga 660
attccgtcg acagagggttc ctccattgtt ctttattta gatcgctgtg atgatgccat 720
cacccccattt ctaaaccagt ggacatatca gccatggtc cacgaactac taggcataaa 780
caacaatcggtt attgatcttt ccagagtgc gggatcagt aaagacttaa gagaagtgg 840
cctatctgtt gaaaatgtatg aattctatgc taataatatg tacctgaact ttgctgatg 900
tggtagcaat ataaagaatc tcatggaa tttcagaag aagaaaccaa aagaacagca 960
aaaactagaa tcaatagcag acatggacc gtttggtag aattatccac agttcaagaa 1020
aatgtctggg actgtttcaaa agcatgtgc agtgggttggaa gaaactgtctc gattggtcag 1080
tgaacggaaat ctgctggagg tttcagaggt tgagcaagaa ctggctgtc aaaatgacca 1140
ttctagtgtt ctccagaataaaaaaggct tctgcagaac cccaaagtga cagagttgt 1200
tgctgcccgc ctgggtatgc ttatgtttt acattatgtt cgacacagca gcaatagct 1260
gccaggacta atgatggacc tcagggataa aggtgtttctt gagaagtatc gaaagctcgt 1320
gtctgcgtttt gttgaatatg gtggtaaacg agtcagagga agtgcacctct tcagccccaa 1380
agatgtgtt gctatccca aacaattctt caaaggactg aaggagtagaaaatgtata 1440
tacacagcat caaccccttcc tacatgaaac cctggatcat ctcataaag gaaggctttaa 1500
ggaaaaccta tattttttttaggccccag cacactcaga gacagacccctc aggatatcat 1560
tgtgtttgtt atggaggag ccacccatgtt agaggctcta acagttata acctgaaccg 1620
caccactcttggagtttggaggagggcaccaca gtgcacaaca cggaaaatgtt 1680

cttagaggaa	gttctggctt	ctggactgca	cagccgaagc	aaggagagct	ctcaagtac	1740
atcaagggtca	gcgagcagaa	gatggaaacgg	tgggggggg	aagggcacag	cttcctct	1800
tgtccccact	acagggtttc	cctactaaac	aaagggttg	gagagcagct	ttgggttctg	1860
tgtcggttgt	tagaactcat	ctccaggtag	cccacggata	cggtggggc	acagacacaa	1920
gactccccaga	gttgcctaa	caataagtct	gagcccatct	caacccactt	ttctccggta	1980
gtctttatgt	atctgttagc	acaatcaatt	cagttactga	tgaattttgt	ttggatctga	2040
cttggggaaa	gggttatcag	agcctagagg	ggctaaaaaa	gtatcattt	gtatgtacata	2100
ccacactctt	tggcttcctt	tctctccctt	taaccctttc	tgcgtttcat	taaccacatt	2160
cctgcacaac	tcattttctga	aaacctacca	tgtttcttta	cagagccatc	aaaaaatttt	2220
ttgtccctac	atagcaattt	tctgtggcac	tgagaaacca	tgtatgacca	caataaaaaat	2280
ccatTTTGTG	aaaggaaaaaa	aaaaaaaaaa	a			2311

<210> 643
<211> 329
<212> DNA
<213> *Homo sapiens*

```
<400> 643
ttcttggat gaggtccaaa ttactaata aggcctgaaa ccctgtgtaa ttttgctcct 60
agttatggct ggcacatcgca ccacaactac agccactgcc acctccccct gccacacaca 120
cattttaaaa gtaacaatag tagtgttttc tgtgtttgc atatacagtc ttttctcatc 180
tcccagcctt cttgagcttt tcctctgcct gagatacgc cccactcaca tagacattgg 240
gggcactaaa taaaaatagc tggttaattt aattggaaatc gttccacttg gaacccaagt 300
ttggaaattt tgctacttct tggttaagct 329
```

<210> 644
<211> 373
<212> DNA
<213> *Homo sapiens*

```
<400> 644
ttttttttt ttctgtttat attataatct ttattgcac tcatggtcct gtctcatttt 60
tgcgtctca tcagtaaaccc attgcaaaacc acagtgcaccc cccatgttgc cccacatttt 120
tgacacaata atttccctcca ggtgtggctg agtcagaatt ccgtcccgctg ccatcccgt 180
gcgtccctgta tgggtgacag tgcaagggtt agaacatgtgg gtgtattcag tggggaaata 240
acatgtgtgc tgtgaaagaa aatgagaaaa acacagcgctc tccattaaaa aactgtatgt 300
cctcgatcc acaaaaagat tggaaaaaaaaa ccactcgggcc catctggggca tctgttcaga 360
```

tgaacgatct tqt

373

caagaagaaa	aagcacgacc	catccacaac	ctaaagatct	ctgtgttcat	acggccccaga	1080
tatgtgagtt	acatgagatg	gcacagtgtat	aaagccccat	ttagtgacct	tgcctccttc	1140
tccttgccaa	ctttgaagt	gcctccgtgt	ccagactttg	aacttgcctg	ccagccttca	1200
gcatcaggaa	aggccaagtc	ctgggtgtga	gtgttccctgt	gtaacaagaa	ctgggctcaa	1260
cggtccagct	gtttctatgg	agctttgggg	ttccttgaga	tgaatgaaca	tatcatttttta	1320
tcatccaaag	gatctcaactg	gactgttcaa	cttccagcca	aattcaagga	gcttgcggga	1380
acatttgcata	taacaaatgt	gttgcatttgc	ttggcaacat	acaagataac	caagaagctg	1440
gagttgttc	tgtgttgatt	tgacttccat	gagaaacaca	ggggaaacct	gatgaggaga	1500
aggataagac	tgcgtaagga	gaaatcctca	tagtagctat	aaagcaggct	gctgtatctca	1560
gcagttgtata	ttgggttgtgt	gcctctgtgt	gctactgggt	gtgtgtccc	catgttcccg	1620
ctgtgatttg	gcagaaacac	aataggcttc	tccttgcgtg	atctcagctt	caagcagggt	1680
aaactgtgt	gcagggggag	ttggcccttc	ccagtaaaag	agttgcagcc	tgttaaacaa	1740
tgtgtctaa	tttagtgcct	ctcccttggc	aaatgtaaatgt	tttctaaatgtt	ggccaaacttg	1800
tctcttacag	ccagtggctg	ttgtctacag	aattgtttca	tataaaatac	gggttagagtg	1860
gtagagtttc	aaaactttcg	tcatagatat	ctggacattt	tctcaggatc	tgtgttcgca	1920
cagccaaatag	attttggaaatc	aggcctaaga	gtacacatgg	agggttaataa	ttaaagtgcg	1980
tattatgtac	atctagaatc	catgtgactt	gcagcctacc	tgtatattct	atccatttgag	2040
catgcatttgc	tataccaaat	agtacacaca	aaataaaatgt	ttacttaaga	gccattctat	2100
cctttgtgt	ctgaaatgtt	ttattgtaaa	tctgcctaaa	gattttttgc	atattatata	2160
tgtgaatttt	ggttgtaaatgt	tcataactta	cccaaggta	tagactcata	actcttttaa	2220
aaacagtgttt	agtacaatat	cctgcctatct	ctgtaaaaac	gctaattgtat	aaccgagtca	2280
tttacatgtt	ttcgaacaca	gaatagctct	tttctcagca	tcattattgc	tctttcagca	2340
tctgttagga	cagtctgaat	actttctgtt	tcaaggcact	gataaaaacgg	caacaaaaac	2400
atgtaaagaaa	taaaatagaa	gtgctttata	tattttagtt	taaattttatg	tatcacttca	2460
tgtgtactta	tttttccat	tataccatta	gtcagatttgc	aataacgggg	ttttgaaagg	2520
ataaaaacctt	ttctccaatg	acaggattat	ataattgtat	ttggcaatgt	agcctgggtgc	2580
ttcatgagac	ctatgtctaa	ttgttactgg	gagttcttgc	agccaggat	accatatacg	2640
gaacttattca	ggatctatgt	tattttctga	ggttaactggg	taatagaata	tcaaattgt	2700
gttatctcg	acctatttgc	aaaggacgt	gctttgcata	tgtatagga	tatatcctaa	2760
gtggggatgt	gtatattca	ggaactttaa	ttcacaagta	tatattgtat	tctgtatgt	2820

gtatagtaca tctgtgggtt atgtacattt taatttacat gttgtgtaga acatagatga	2880
gaactctggg aaaacttggg aatggcaacc aaccaaatac atttttaatc atttttaga	2940
aatttctcaa tatttgtct ttttctttt aaactctaaa cacttcgaa aaaaacacta	3000
tcatgttagt tcatgttagt ataattatag atttacatata atttgaatag ttaatttgct	3060
ttgtttaca cgtagccac tgccctatta taggtaaaag gcattataa ctgctcaggg	3120
gattacgaga actcaactga aactgaattt ttgtaacaag aatgttaata gtggcaaagt	3180
cctctgtcag taaaactctt aagcttggg ccgcaaagag tctttaaatg ggggctgatt	3240
tcaagtaacc taaaactgtg tggtatcaga ggaagaggc ccaaatttg agtaaagatg	3300
ggagaaaata aatatgtctt atttccttgg cgagttgggt gaatttgccttacagag	3360
tttgcatac tgaatttagt gctttgttt tttttttttt ttttttttgc cagggtatgt	3420
gagtgggggt tggttgc当地 actgatttt aataatttga tttaattttt tttaacattt	3480
aaaagtgcct gaaaaatgtt aaattcttaa atgtgtgtga gattgtcaga atcaacaaaa	3540
ctagtttgc当地 taaacatatac tctggatcat caagggcat gatacaaacc agtctaaaga	3600
ctgtttataa aggagagagc tggcgactta tttttatttt ttttttttgg acagagtc当地	3660
cctttgtc当地 ccaggccgga gtgcagtgcc atgatcatgg ttcaatttca cccctacetc	3720
ctgggctcaa gtgttctct caccttatecc tcctgagcag ctgggactac aggcacacac	3780
/ caccacacct ggctaaatgtt tgatttttt gttagatgg ggttctctg tggtccccag	3840
tcttgc当地 aactccttggg ctcaaggatctt ctacccttcc tgggtccca aagtgtcggg	3900
attacaggtg tggacttgc当地 tggacttgc当地 ctgacagttt taactgacaa ctgtataac	3960
agaggctctt atttttgttt tagataattt ggcaggatgg ggttccccc ttgc当地	4020
tcttgc当地 ccagctttgtt ctttcttagt tgattctt tctgtatttga gaggaagtgt	4080
gggtctacat agggatgttt ggatgtctat gcaagaatctt ttttgc当地 ggagtgttagt	4140
ccatggcaaa tagaaataaa aaaatccgtc accaaattgtt aacctggatg ttatggccca	4200
gcatcttagaa atcctatgaa atgtatttgc当地 acaatatctt gcaatttgc当地 catcttagaa	4260
attttttctt gttgtggatggt agggaaatgtt ggaggaaagc catggccaaag caaatgttag	4320
aatcttaggc当地 atccttatttgc当地 ttcatggatgg ggttcttgc当地 ttggacttgc当地 ggttctgtac	4380
tttggaaatgg gcttttggaaa aacaaataat tctgtgtgaa ttttcttgc当地 gctgtgttca	4440
tggaaaatatac tacttatcca ggttttgc当地 tcttgc当地 ctttgc当地 taaatcacca	4500
tttcttgc当地 ccccacgtttt ttttcttaaa attattctga attaaatgtt ttttcttgc当地	4560
gccttcccta cacagttacta ataaaagact ttttcttgc当地 ttcaaaaaaaaaaaaaaaa	4620
aaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aagaaaaaaaaaaa	4680

aaaaaaaaaa aa	4692
<210> 647	
<211> 1991	
<212> DNA	
<213> Homo sapiens	
<400> 647	
c t gtccga gaggagtc c tcgcggacgt cagccaagat tccagaatga ctatcttgc a 60	
ttacccttt aaaaatcttc ccactgc a tc aaaatggcc ctcagat t tt ccataagacc a 120	
tctgagctgt tcctccc a ge tacagagctgc cccagctgtc cagacaaaa cgaagaagac a 180	
gttagccaaa cccaaatataa ggaatgttgt ggttgtggat ggttgtcgca ctccat t ttt 240	
gctgtctggc acttcatata aagacctgtat gccacatgtat ttggctagag cagcgcttac a 300	
gggttgttg t catcgacca gtgtccctaa ggaagttagtt gattatatac t tctttggat c 360	
agttattc g gaagtaaaa caagcaatgt ggctagagag gctgccttg gagctgg c tt 420	
ctctgacaag actcctg c tc acactgtcac catggctt g t atctctgc a accaagccat a 480	
gaccacaggt gttggctt g a ttgcttctgg ccagtgtat g gtgatcgtgg caggtgg t gt 540	
tgagttgat g tccgatgtcc ctattcg t ca ctcaaggaaa atgagaaaaac tgatgctt g a 600	
tctcaataag gccaaatcta tggccageg actgtctta atctctaaat tccgatttaa a 660	
tttcttagca cctgagctcc ctgcgg t ttc tgagttctcc accagtgaga ccatggcc a 720	
ctctgc a gac cgactggccg ctgc t ttgc tg t ttctcg g ctggaacagg atgaatatgc a 780	
actgcgc t t cacagtctag ccaagaaggc acaggat g aa ggactcc t tt ctgatgtgg t 840	
acccttcaa a gtaccaggaa aagatacagt taccaaagat aatggcatcc gtccttc c tc 900	
actggagc g atggccaaac taaaac t gc attcatcaag ccctacggca cagt g ac g c g 960	
tgcaaattct t t tttctt g a ctgatgtgc atctgc a at t ttaatcatgg cggaggaaaa 1020	
ggctctggc a atgggttata agcc a aggc atat t tgagg gat t ttatgt atgtgtctca a 1080	
ggatccaaa gatcaactat tacttgacc aacat t atgc a actccaaaag ttctagaaaa 1140	
ggcaggattg accat g aat g atattgat g ttttgaat t catgaagctt tctcg g gtca a 1200	
gat t ttggca aat t ttaa g ccat g gat t cc tgat t gg t tt gcagaaaaact acatgg t tag a 1260	
aaaaaccaag gttggatt g c ctcc t tt g a gaagtt ta at aactgggg t g gatctctgc a 1320	
cctggacac ccatt g gag ccact g g c t caggtgg t c atggctg c t ccaacagatt a 1380	
acggaaagaa ggaggcc a gt atggcttagt ggctgc t gt c g c agctggag ggcagg g cca a 1440	
tgctatgata gtggaa g t t atccaaata atagatcc g aagaagt g ac ctgaagttc a 1500	
tgtgcaacac tcacactagg caat g ccatt tcaat g catt actaaat g ac a ttt g tagtt a 1560	

cctagtcct	cttagaaaa	cagttcttgc	ggccttctat	taaatagttt	gcacttaagc	1620
cttgcagt	ttctgagctt	ttcaataatc	agtttactgc	tcttcaggg	atttctaagc	1680
caccagaatc	tcacatgaga	tgtgtgggt	gttgttttg	gtctctgtt	tcactaaaga	1740
ctaaatgagg	gtttcagtt	ggaaaagagg	tcaactgaga	tttggaaatc	atctttgtaa	1800
tatttgcaaa	ttatacttgc	tcttatctgt	gtcctaaaga	tgtgttct	ataaaataca	1860
aaccaacgt	cctaattaat	tatggaaaaa	taattcagaa	tctaaacacc	actgaaaact	1920
tataaaaaat	gtttagat	ataaatatgg	tggtcagcgt	taataaagt	gagaaatatt	1980
gaaaaaaaaa	a					1991

<210> 648
<211> 2811
<212> DNA
<213> Homo sapiens

<400> 648						
acacaggaag	ctgagccggc	ttggggccca	gcatacacag	ccccccagga	cccctggga	60
gaggggcccg	ctgggctggc	cctgcaggga	ccatggaaatc	cagagctgaa	gggggctccc	120
ctgctgtgtt	tgattggttc	ttcgaagcgg	cctgcctgc	ctccctgcag	gaggatcccc	180
ccatctgcg	gcagttccct	ccagacttca	gggaccagga	agctatgcag	atggtccta	240
aattctgttt	ccctttgtat	gtggaaagg	agccccccag	ccccccgtg	cagcatttca	300
ccttcgcct	cacagacctt	gccggcaacc	gcagattgg	tttctgcgc	ctgcggggcg	360
gtacccagag	ctgtctctgc	atcctcagecc	acctgcctt	gttcgaggt	ttttacaagc	420
tattgaacac	agtggggagac	ctcctagccc	aggaccaagt	caccgaggca	gaggaacttc	480
ttcaaaaatct	gttctcagc	tccctgtctg	ggccccccaggc	ctcagtgccc	cttggagctgg	540
gcagcggagt	gacggcttc	agcggggcagg	gtatcccccc	ccctaccccg	ggaaatagca	600
agccgcgttc	ctgcttcgt	gccccggact	ccggccgcct	gccatccatc	cctgagaaca	660
ggAACCTAAC	ggagctgg	gtggccgtga	ctgacgagaa	catcgtgggg	ctgttcgcgg	720
cgctcctggc	cgagagaaga	gtcctgtctca	ccgcccagaa	actcagcacc	ctgacctcgt	780
gcgtccacgc	gtcctgcgc	ctcctgtacc	ccatgcgt	ggagcacgt	ctgatcccc	840
cgctgcctcc	acacatgtctg	gactactgt	gcgcgcctat	gccctacctc	attggagtg	900
acgcgcgtct	cgcccgagaga	gtacgagaaa	aagcccttga	ggacgtcg	gtgctgaa	960
tggacgcaa	taccttggag	acgaccttta	acgacgtca	ggcgctgcct	ccagacgtgg	1020
tgtccctgt	gaggctccgg	ctcaggaagg	tcgcctggc	ccccggggaa	gggggtgtccc	1080
gtctcttcct	caaagcccg	gccctgtct	tcgggggt	ccgcgacgca	ctcgtctgc	1140

gccccggcga	gccagtgacc	ttcagtgagg	aagtcttctt	ggcccagaag	cctggggcac	1200
ctctgcaggc	cttccacccgg	cgggctgtgc	acctgcagct	gttcaaacag	ttcatcgaaag	1260
ccccggctgga	gaagctcaac	aagggggagg	gcttctcaga	tcaattcag	caggagatca	1320
ctggctgcccgg	ggccctccca	ggggcccttc	gatcctatca	gctctggcc	gacaatctaa	1380
agaaaagggtgg	tggcgccctc	ctgcactcag	tcaaggccaa	gacccaacca	gccgtcaaga	1440
acatgttacccg	ctcgcccaag	agtggcttga	aggggggtca	gagccttcta	atgtataagg	1500
atggggactc	tgtccctgca	agggggggct	ctctgaggc	cccagccctc	cccagccgct	1560
cagaccgcct	gcagcaacgc	ctcccaatca	ctcagcactt	tggaaagaac	cggcccttc	1620
gccccagcag	gagacgcccag	ctggaagagg	gaactccga	gcccccagg	gcggggacac	1680
ccccacttag	ccctgaggat	aggggggtcc	cgtggcaga	agaagctctg	gacagcagct	1740
tcttggggtc	tggagaagaa	ctggatttgt	tgagecgagat	tctggacagt	cttagcatgg	1800
gagccaagag	cgcaggcago	ctgagaccga	gccagagttt	agactgctgt	cacagaggag	1860
acctggacag	ctgcttcagc	ctgcccaaca	tactaagatg	gcaaccagac	gataagaaaac	1920
taccagagcc	ggagccccag	cccccttccc	tgccatccct	gaaaaatgcc	tctgttttgg	1980
atgccaccag	ctcttcaaag	gactccagg	cccagctgat	accctcagag	tccgaccaag	2040
aagtacacgtc	tccatccca	tcctcaacag	cttctgcaga	ccccaaagc	tggggggacc	2100
ccaaaccctc	tcctctcaca	gagccctaa	ttcttcatct	caccccttc	cacaaggcag	2160
ctgaagattt	tacagccccag	aaaaacccca	ctccctggct	ctccactgca	cccactgagc	2220
ccagccctcc	agaaagcccc	caaattctgg	ccccccacaaa	gccccacttt	gatatacgct	2280
ggacgtccca	gccccttgc	cttcctcag	accccagtgc	tctggaggac	cccagagccc	2340
ggccctccaa	agccctgctg	gcagagcgc	ctcacctcca	gccacgggg	gaaccaggag	2400
ccctgaattt	ccctgttaca	cccaccagca	actgtcaaaa	gtcccaagccc	agcaagccgg	2460
cccaagatcg	ctgatcttaa	gaagtgc	ttt gagggttaag	aatcagggg	ccaagagaga	2520
ccccagttccc	tcaataaaagc	cacaagagcc	caaaaaagct	ggtttttttc	ctggtaatt	2580
tctctgggtc	cctcaactctg	ctcgaaatc	catcccccaccc	acccctgtcc	ctccaaaggcc	2640
agccctctta	actggcttcc	actggaaat	tccaggaagc	ctcctggct	tctagaatcc	2700
tggcaacctt	acaattccctc	tcggcatttg	tcacttccat	ctcagctaat	gcacccacca	2760
gctcaaacac	accaataaaag	cttttgttac	tctcaaaaaa	aaaaaaaaaa	a	2811

<210> 649
<211> 2315
<212> DNA

<213> Homo sapiens

<400>	649					
tttttccctg	tttctctgca	gttttcctca	gctttgggtg	gtggccgctg	ccgggcac	60
gttccagtc	cgcggaggc	gaggcggcg	ggacagcgc	ccccggcac	cc	120
cgcccccaag	ccgcgcgc	gtccgcgc	ccccgagccc	gccgcgttct	atctcagegc	180
cctgcccgg	ccggccggc	ccagcgagcg	gccctgatgc	aggccatcaa	gtgtgtgg	240
gtgggagacg	gagctgttag	taaaaacttgc	ctactgatca	gttacacaac	caatgcattt	300
cctggagaat	ataccctac	tgtctttgac	aattattctg	ccaatgttat	ggtagatgg	360
aaaccgggtga	atctgggctt	atgggataca	gctggacaag	aagattatga	cagattacgc	420
cccccatacct	atccgcaaac	agatgtgttc	ttaatttgc	tttcccttg	gagtccctgca	480
tcatttgaaa	atgtccgtgc	aaagtgttat	cctgagggtc	ggcacccact	tcccaacact	540
cccatcatcc	tagtgggaac	taaaacttgc	cttagggatg	ataaaagacac	gatcgagaaa	600
ctgaaggaga	agaagctgac	tcccatcacc	tatccgcagg	gtctagccat	ggctaaggag	660
attggtgctg	taaaatacct	ggagtgtctg	gwgctcacac	agcgaggcct	caagacagtg	720
tttgacgaag	cgatccgagc	agtccctgc	ccgcctcccg	tgaagaagag	gaagagaaaa	780
tgcctgtgt	tgtaaatgtc	tcagccctc	gttcttgg	ctgtcccttg	gaaccctttgt	840
acgcttgc	caaaaaaaaaa	aaaaaaaaaa	aaacaaaaaaaaa	aaaaaacaac	ggtgaggcct	900
tgcactcaa	tgccaaactt	ttgttacaga	ttaattttc	cataaaacca	tttttgaac	960
caatcgtaa	ttttaagggt	ttgttgttc	taaatgtaa	agttcagact	cacattctat	1020
taaaatttag	ccctaaaatg	acaaggcctt	ttaaagcctt	atttttcaaa	agcgcccccc	1080
ccattttgt	tcaagat	atgtgc	ataccctgc	aactacact	cattgtgtg	1140
ccgagaacac	cgagca	actttgc	gacccctgc	tttgagaaga	cggttagctc	1200
tgcagttagg	aggcgcac	acttgc	ctatgtat	ctcagatgc	taaagcagaa	1260
cagcctcccg	aatgaagcgt	tgccattgaa	ctcaccagtg	agttgc	acgtgttccc	1320
gacataacat	tgtactgtaa	tggatgtgc	gtgcgc	agcttttg	atcgtcttt	1380
gtgat	atgcgat	ttgaccagct	tttgccgg	tttgaacag	aactgttatt	1440
tcctcta	atg	tttagctgt	gggtgtccgg	gtgggggtgt	tgtgtatcaaa	1500
ggacaaa	agat	tttgc	caaaatgc	agtgaggatt	tacactacat	1560
atgaaatgt	cacggtaaa	aactctaaa	ggtaatttgc	tgtcaatgc	agtagatgt	1620
gaaagaaagg	tttgttattat	caggaaatgt	tttcttaagc	tttcccttgc	tcttacac	1680
gccc	atgc	ccaaattgg	gcatttaatt	catcttaaa	ctgggtgttc	1740

taacttagta	agtgcgtttc	ttatagaacc	ccttctgact	gagcaatatg	cctccttgta	1800
ttataaaatc	tttctgataa	tgcattagaa	ggtttttttg	tcgatttagta	aaagtgcctt	1860
ccatgttact	ttattcagag	ctaataagtg	cttcccttag	ttttcttagta	actagggtga	1920
aaaatcatgt	gttgcagctt	tatagttttt	aaaatatttt	agataattct	taaactatga	1980
accttcttaa	catcactgtc	ttgccagatt	accgacactg	tcacttgacc	aatactgacc	2040
ctcttacct	cgccccacg	gacacacgc	tcctgttagtc	gctttgccta	ttgatgttcc	2100
tttgggtctg	tgaggttctg	taaactgtgc	tagtgctgac	gatgttctgt	acaacttaac	2160
tcactggcga	gaatacagcg	tgggaccctt	cagccactac	aacagaattt	tttaaattga	2220
cagttgcaga	attgtggagt	gtttttacat	tgatctttt	ctaattgcaat	tagcattatg	2280
ttttgcatgt	atgacttaat	aaatccttga	atcat			2315

<210> 650
<211> 636
<212> DNA
<213> Homo sapiens

<400> 650	ggcaacaccc	tgtgataatt	ccaggtgatt	ctctacatct	gcagctttag	gtggaaagtc	60
	tgaagctcg	agagcctggg	ccaatggta	aggtcacaca	gcacatcagt	ggctcatatgt	120
	gagctcagac	ctgggtctgc	tgctgtctgt	cttcccaata	tccatgacct	tgactgtatgc	180
	aggtgtctag	ggatacgtcc	atccccgtcc	tgctggagcc	cagagcacgg	aagcctggcc	240
	ctccgaggag	acagaaggga	gtgtcgacaca	ccatgacgag	agcttggcag	aataaataaac	300
	ttcttttaac	aattttacgg	catgaagaaa	tctggaccag	tttattaaat	gggatttctg	360
	ccacaaacct	tggaagaatc	acatcatctt	agcccaaggt	aaaaactgtg	ttgcgttaaca	420
	aagaacatga	ctgcgctcca	cacatacatac	attggccggc	gaggcggggac	acaagtcaac	480
	gacggacac	ttgagacagg	cctacaactg	tgcacggttc	aaaagcagg	ttaagccata	540
	cttgctgcag	tgagactaca	tttctgtcta	aagaagatgt	ccctgacttg	atctgtttt	600
	caactccagt	tcccagatgt	gcgtgttgc	gtcccc			636

<210> 651
<211> 886
<212> DNA
<213> Homo sapiens

<400> 651	gtcggttccg	ggcggttacca	tegtccgtgc	gcacggcccg	gcgtccagg	gagtctccca	60
	tctgcagaga	cgcggacgcg	ccggcccgca	gttggcctgc	ggagcgcgg	ggacggtttgc	120
	gcgccccacca	ggcgatcaat	actttggatt	tttaatttct	agatttggca	attcttcgcgt	180

```
<210> 652  
<211> 7686  
<212> DNA  
<213> Homo sapiens
```

<400> 652 tttatagcag cagcagaat ataccaccct agaggacaca ctccttta gcttagtacc 60
tataaatgtc caggatttc tattcaattg agaagaaccc agcaaaatgg ggatctccac 120
agtcatcctt gaaatgtgc ttttatgggg acaagttcta tctacaggtc ggttgtatccc 180
aaggactaca gactacgctt cactgattcc ctggagggtg cccttgatc aaactgttagc 240
agaaggttctt ccatttcctt cgaggatcgac cctggagtca actgcacgac aagggttcc 300
gatttccctt gagtcaaccc tggagtcaac tgttagcagaa ggttctctga ttccctcaga 360
gtcaaccctt gagtcaactg tagcagaagg atctgattct ggtttggccc tgaggcttgt 420
gaatggagat ggcagggtc agggcccgagt ggagatctta taccgaggct cttggggcac 480
cgtgtgtat gacagctggg acaccaatga tgccaacgtg gtctgttaggc agctgggttg 540
tggctgggcc atgtcagctc caggaaatgc ctggtttggc cagggctcag gaccattgc 600
cctggatgtat gtgcgtctgtc caggacacga atccctactt tgagatgtcc cccacaatgg 660
ctggctctcc cataactgtg gccatggtga agatgttgtt gttatctgtc cagctggccca 720
gcctcagtca acactcaggc cagaaagttg gcctgtcagg atatcaccac ctgtacccac 780
agaaggatctt gaatcccgat tggccctgag gctggtaat ggaggcgcaca ggtgtcggagg 840
ccqacttqqaq qtcctatacc qaqqctctcq qqggcaccctq tqtqatqact actqqqacac 900

caatgatgcc	aatgtggctc	gcagggcagct	gggctgtggc	tggccatgt	cagccccagg	960
aaatgcccag	tttggccagg	gctcaggacc	cattgtcctg	gatgtatgc	gctgctcagg	1020
acacgagtc	tacctgtgga	gctgccccca	caatggctgg	ctcacccaca	actgtggcca	1080
tagtqaagac	gctgggtgtca	tctgctcagc	tccccagttc	cggccgacac	ccagccccaga	1140
tacttggccg	acctcacatg	catcaacagc	aggacctgaa	tccagtttg	ccctgaggct	1200
ggtgaatgga	ggtgacaggt	gtcaggggcg	agtggaggtc	ctataccgag	gctcctgggg	1260
caccgtgtgt	gatgatagct	gggacaccag	tgacgccaat	gtggctgtcc	ggcagctggg	1320
ctgtggctgg	gccacgtcag	ccccaggaaa	tgcccggtt	ggccagggtt	caggacccat	1380
tgtccctggat	gacgtgcgt	gctcaggcta	tgagtcttac	ctgtggagct	gccccacaa	1440
tggctggctc	tcccataact	gtcagcacag	tgaagacgct	ggtgtcatct	gtcagctgc	1500
ccacttctgg	tcgacgcccc	gtccagacac	gttgcgcacc	atcaccttac	ctgcatcgac	1560
agtaggatct	aatcccgat	tggccctgag	gctggtgaat	ggaggtgaca	ggtgtcaggg	1620
ccgagtgagg	gtcctataacc	gaggctcctg	gggcacccgt	tgtgtatgaca	gtcggacac	1680
caatgatgcc	aatgtggctc	gcagggcagct	gggctgtggc	tggccatgt	tggcccccagg	1740
aaatgcccgg	tttggtcagg	gctcaggacc	cattgtcctg	gatgacgtgc	gctgctcagg	1800
gaatgagttc	tacttgtgga	gctgccccca	caatggctgg	ctctccata	actgtggcca	1860
tagtgaagac	gctgggtgtca	tctgctcagg	acctgaatcc	agtttggccc	tgaggctgg	1920
gaatggagg	gacaggtgtc	agggccaggt	ggaggtccta	tacggaggct	cttggggcac	1980
cgtgtgtgt	gacagctggg	acaccaatga	tgccaatgt	gtctgcaggc	agctgggctg	2040
tggctggggc	atgtcagccc	caggaatgc	ccggtttgg	cagggctcag	gaccattgt	2100
cctggatgt	gtgcgctgt	caggacatga	gtcctacctg	tggagctgcc	ccaacaatgg	2160
ctggctctcc	cacaactgt	gccatcatga	agatgctgt	gtcatctgt	cagctgcccc	2220
gtcccggtcg	acgcccaggc	cagacacgtt	gtcgaccatc	acgttacctc	catcgacagt	2280
aggatctgaa	tccagtttg	ccctgaggct	ggtgaatgga	agtgcacaggt	gtcaggggccg	2340
atagtagggtc	ctataccgag	gtccctgggg	caccgtgtgt	gatgacagct	gggataccaa	2400
tgtatgccaat	gtggctgtca	ggcagctggg	ctgtggctgg	gccatgtcag	ccccaggaaaa	2460
tggcccggtt	ggccagggt	caggacccat	tgttctggat	gatgtgcgt	gctcaggaca	2520
cgagtcttac	ctgtggagct	gccccacaa	tggctggctc	tcccacaact	gtggccatca	2580
tgaagatgt	ggtgtcatct	gtcagtttc	ccagttccgg	ccgacaccca	gtccagatac	2640
ttggccgacc	tcacatgtat	caacagcagg	atctgaatcc	agtttggccc	tgaggctgg	2700

gaatggaggt gacagggtgctc	agggccgagt ggaggcttcta taccgaggct cctggggcac	2760
cgtgtgtat gatacgctgg acaccagtgc	cgccaatgtg gtctgcggc agctgggctg	2820
tggctgggcc acgtcagccc caggaatgc	ccgggttggc cagggttcag gaccattgt	2880
cctggatgac gtgcgtgtc	caggctatga gtcctacctg tggagctgcc cccacaatgg	2940
ctggctctcc cataactgtc	agcacagtga agacgctgtt gtcatctgtc cagctgccc	3000
ctcctggteg aegccccagtc	cagacacatt gccgaccatc accttgcctg catcgacagt	3060
aggatctgaa tccagtttg	ccctgaggct ggtgaatgga ggtgacaggt gtcaggccg	3120
agtggaggc	ctataccaag gtcctgggg caccgtgtc gatgacagct gggacaccaa	3180
tgatgcaat gtcgtctgca	ggcaaccggg ctgtggctgg gccatgtcag ccccaggaaa	3240
tgcgggttt ggtcagggtc	caggacccat tgtcctggat gatgtgcgtc gtcaggaca	3300
cgagtcttac ccgtggagct	gccccacaa tggctggctc tcccacaact gtggccatag	3360
tgaagacgct ggtgtcatct	getcagcttc ccagttccgg ccaacaccta gtccagacac	3420
ttggccaacc tcacatgcat	caacagcagg atctgaatcc agtttggccc tgaggctgg	3480
aatggagggt	gacagggtgctc agggccgagt ggaggcttcta taccgaggct cctggggcac	3540
cgtgtgtat gactactggg	acaccaatga tgccaatgtg gtttgcaggc agctgggctg	3600
tggctggcc atgtcagccc	caggaatgc ccgggttggc cagggttcag gaccattgt	3660
cctggatgat gtgcgtgtc	caggacatga gtcctatgtg tggagctgcc cccacaatgg	3720
ctggctctcc cacaactgtg	gccatcatga agacgctgtt gtcatctgtc cagttccca	3780
gtccccagcc acacccagcc	cagacacttg gccaacctca catgcatcaa cagcaggatc	3840
tgaatccagt ttggccctga	ggctggtaa tggaggtgac aggtgtcagg gccgagtgg	3900
ggcctatac cgaggtctt	ggggcacccgt gtgtgtatgac tactgggaca ccaatgtgc	3960
caatgtggtt tgcaggcago	tgggtgtgg ctggccacg tcaagccca gaaatggccg	4020
gtttggccag gggtcaggac	ccattgtctt ggatgtatgtc cgctgtcag gacatgagtc	4080
ctatctgtgg agctgcccc	acaatggctg gtcctccac aactgtggcc atcatgaaga	4140
cgctgggtgc atctgtcag	cttcccagtc ccagccgaca cccagccca gacacttggcc	4200
aacctcacat gcatcaacag	caggatctga atccagtttgc gccctgaggc tggtaatgg	4260
aggtgacagg tgcaggccc	gagtggaggct cctataccga ggctctggg gcaccgtgt	4320
tgtactac tgggacacca	atgatgccaatgtgggttgc aggacgactgg gtcgtggctg	4380
ggccacgtca gccccaggaa	atgcccgggtt tggccagggt tcaggaccca ttgtctgg	4440
tgtatgtgcgc tgctcaggac	atgagtcata tctgtggagc tgccccaca atggctggct	4500
ctcccaacaac tgcggccatc	atgaagacgc tgggtgtcatac tgctcagctt cccagttccca	4560

ggcgacaccc agccccagaca cttggccaac ctctcgtgca tcaacagcag gatctgaatc	4620
cactttggcc ctgagactgg tgaatggagg tgacaggtgt cgaggccgag tggaggtcct	4680
ataccaaggc tcctggggca ccgtgtgtga tgactactgg gacaccaatg atgccaacgt	4740
ggtctgcagg cagctgggt gtggctggc catgtcagcc ccaggaaatg cccagtttg	4800
ccagggctca ggaccatttgc tcctggatga tgtgcgtgc tcaggacacg agtcttacct	4860
gtggagctgc cccacaatg gctggcttc ccacaactgt ggccatcatg aagatgctgg	4920
tgtcatctgc tcagtgctc agtcccagtc aacgcccagg ccagatactt ggctgaccac	4980
caacttaccg gcattgacag taggatctga atccagtttgc gctctgaggc tggtaatgg	5040
aggtgacagg tgtcgaggcc gagttggagggt cctgtatcgaa ggctcttggg gaaccgtgt	5100
tgtatgacagc tgggacacca atgatgccaa tgggtctgc aggagctgg gctgtggctg	5160
ggccatgtcg gccccaggaa atgcccgggtt tggccaggc tcaggaccca ttgtcttggaa	5220
tgtatgtgcgc tgctcaggga atgagtcccta cctgtggcgc tgccccacaa aaggctggct	5280
caccacaaac tggccatc acgaagacgc tgggtcatac tgctcagcca cccaaataaaa	5340
ttctactacg acagattggt ggcatttcaac aactacaacc actgcaagac cctcttcaaa	5400
tttgttggc ttcttattct atgcccgtgg gacattctcc agcccatctt accctgcata	5460
ctacccaaac aatgctaagt gtgtttggaa aatagaagtg aatttgggtt atcgataaaa	5520
cctgggcttc agtaatctga aattggaggc acaccataac tgcagtttg attatgttga	5580
aatcttgcgtt ggtatcatgtt atagcgtct cctgtgggg aaaatctgtt atgataccag	5640
gaaatattt acatcttctt acaacccaaat gaccattcac ttgcagtttgc acatcgttt	5700
ccaaaacact ggcttttgg cttggataaa ctccttccca agcgatgcca ctttgagggtt	5760
ggtcaattta aattcatctt atggctatcg tgccggcgt gttagaaattt accatgggtgg	5820
cacctggggg acagtttgcgtt atgactccctg gaccattcag gaagctgagg tggctgcag	5880
acagctagggtt tggacgtgcgtt ctttttcgcgc ctttggaaat gcatattttgc gctctggc	5940
tggccatcacc accctggacgc atgttagatgtt ctcaggacgc gaatccactc tctggcgttgc	6000
ccggaaacgc ggctttttctt cccacaactgtt taatcatgtt gaagatgtgtt gtgtcatctg	6060
ctcaggaaac catctatcgat cacctgtctt ttttctcaac atcaccgtc caaacacaga	6120
ttattcttcgc ggaggcttcc tatcccaacc atcaggggac ttttcagcc catttatcc	6180
cgggaaatctt ccaaacaatgtt ccaagttgtgtt gtggacattt gaggtgcacaa acaactaccg	6240
tgtactgttgc atcttcagatgtt atgtccatgtt tgaaggtggc tgcaactatgtt attatattgtt	6300
atgtttcgat gggccctacc gcagttcccc ttcattgttgcgtt cttttttgtt atggggccatgtt	6360

aggctccttc	acttcttcct	ccaaacttcat	gtccattcgc	ttcatcagtgc	accacagcat	6420
cacaaggaga	gggttccggg	ctgagacta	ctcccgatccc	tccaatgaca	gcaccaacct	6480
gtctgtctg	ccaaatcaca	tgcaagccag	tgtgagcagg	agctatctcc	aatccctggg	6540
ctttctgcc	agtgaccttg	tcatttccac	ctggaatgga	tactacgagt	gtcgccccca	6600
gataacgccc	aacctggta	tattcacaat	tccctactca	ggctgcggca	ccttcaagca	6660
ggcagacaat	gacaccateg	actattccaa	cttccctaca	gcagctgtct	cagggtggcat	6720
catcaagagg	aggacagacc	tccgtattca	cgtcagctgc	agaatgcttc	agaacacccgt	6780
ggtcgacacc	atgtacattg	ctaatacgtac	catccacgtt	gctaataaca	ccatccagggt	6840
cgagggatc	cagtatggca	attttgacgt	gaacatttcc	ttttatactt	cctcatcttt	6900
cttgtatctt	gtgaccagcc	gcccttacta	cgtggacctg	aaccaggact	tgtacgttca	6960
ggctgaaatc	ctccattctg	atgctgtact	gaccttggttt	gtggcacct	gcgtggcatc	7020
accatactcc	aatgacttca	cgtctttgac	ttatgtatca	atccggagtg	gatgcgttag	7080
ggatgacacc	tacggaccct	actccctcgcc	gtctcttcgc	attggccgct	tccgggttcag	7140
ggccctccac	ttccctgaacc	gcttcccttc	cgtgtacctg	cgtgtaaaa	ttgggggtgtg	7200
cagagcgtat	gacccttctt	cccgctgcta	ccggggctgt	gtgttggat	cgaagaggga	7260
tgtgggctcc	taccaggaaa	aggtggacgt	cgtcctgggt	cccatccagc	tgcagaccccc	7320
cccaacggca	gaagaggagc	ctcggttagt	ggtcgctctc	agacccact	gtccacccggg	7380
gcgcagaccc	ctgactcggg	gacttggat	gttccctctt	gtgtcatatt	ccaaactcaga	7440
ttgagcccta	cattgtgtctg	cacctggta	tacggagttg	aatcagacct	gttcccgccc	7500
tcccccacgg	ctcatggtcc	ttggaggacc	cgtgcaggg	cgagggtcaag	agagttctga	7560
cctggatggc	ccatagacct	gacgtcccg	aatccatgt	tctcatctgc	aaaatgaaaa	7620
tgtcaatact	tacttcttag	cactgtttag	agggttactt	acataaaagg	attttgggt	7680
aactgc						7686

<210> 653
<211> 506
<212> DNA
<213> Homo sapiens

<400> 653	ctcttcgtc	caggccccgt	gcccggacag	gatgggcaag	tgtcgtggac	tgcgtactgc	60
	taggaagctc	cgtactcacc	gacgagacca	gaagtggcat	gataaacagt	ataagaaagg	120
	tcattttggc	acaggccctaa	aggccaaaccc	ttttggat	gtttctat	caaaaggaaat	180
	cgtgctggaa	aaagttaggag	ttgaagccaa	acagccaaat	tctgcccatta	ggaagtgtgt	240

aagggtccag ctgatcaaga atggcaagaa aatcacagcc tttgtaccca atgacggttg	300
cttgaactt attgaggaaa atgatgaagt tctggttgt ggatttggtc gcaaaaggta	360
tgcgttgtgt gatattcctg gagtcgcctt taaggttgtc aaagtagccaa atgtttctct	420
tttggcccta tacaaaggca agaaggaaag accaagatca taaatattaa tggtgaaaac	480
actgttagtaa taaatttca tatgcc	506

<210> 654
<211> 2952
<212> DNA
<213> Homo sapiens

<400> 654 ggcgccgtcg agtcatcgca gggcctcacc gtttcgttct cccgtccctc cccgcgcctt	60
ggctcgacta gccaagttag gccccggcg acttcggaccc ttccctgtat ttcggttcgg	120
ccagtgccgg ggctacccgc cctggggcct gggatccctt gggcccggtga gccactctta	180
gccccgggg ctaccgcggc ccggccgtgc cctcatgagg catacgctgac caagctgctg	240
gcagcctcg gcagcaactc cccaaacccgc agttagagcc cgagccggc tgcaacttgt	300
tgcgtgcctt ctgacactgac ccgggctgca gccccggagg aggagacggc ggcggcgatc	360
tccggccgc aagcagcagt ttggcagcga aggagatgtt gaagccggga gggggagccg	420
cggccggcggt gcccgtcgcc cggccctcccc cgaggagatg gaggaggagg cgatcgccag	480
cctcccccggg gaagagacgg aggatatgga ctttcgttctt gggctggAAC tggcgatct	540
cctggacccc aggcaacccg actggcaccc ggacccggg cttagctgc cggggccctct	600
cttcctgtctt ggccgggggtt cggatagccg cggccgtgtt agagggggacg atgacgatga	660
ggccgcgggtt gctgaaatgc agcgcttctc tgacactgtt caaaggctgt taaacggat	720
cggaggctgc agcagcagca gtgacagtgg cagccggcaa aagaggccga gaaagtcccc	780
aggaggaggc ggcgggtggcg gcaagggtaa cgacaacaaac caggccggca caaagagtcc	840
ccggaaaggcg gggccggccg ctgccccctt taatcgactg aagaagaagg agtacgtgtat	900
ggggctggag agtgcgttcc ggggtctggc agccgagaac caggagctgc gggccgagaa	960
tccggagctg ggccaaacccg tacaggcact gcaggaggag agtgcgttcc tacggccagt	1020
cttagccaaac gagactggac tggctcgctt gctgagccgg ctgagccgg tgggactgcg	1080
gtgcggaccacc tgcgttccaa gagactcgcc cggccgggtac cacgactacg ctctggccagt	1140
ggggaaaggcg aagcaggacc tgcgttccaa ggacgactcg gccccggagg tctgttccaa	1200
tgcgttccaaatggacaaatcg tgcgttccaaatcc gcggttaccc ctttcaactc	1260
ttctttaaaatgttccaaatcg aagtaatctg ctctttatcc gcggttaccc ctttcaactc	1320

ccttacacca	tgtcaaactt	accttagtg	gacatcttca	ccggcacat	ttcagaggag	1380
agaaaaaaag	taatattgaa	tcttaaagt	tttagctaa	agcatgaatg	tgacacagta	1440
accaactct	aatgataaca	tgtgactatt	aaatctct	gacagttct	tttttagtg	1500
attccttcc	tgccaggctc	cgttgtaggg	gttacagaac	agtcgttccc	gcctcacaac	1560
ctgtggatac	agctgttggg	gcagaagaga	cgggaccgc	tgctggccac	atttctgtct	1620
ttatttaaa	aggtgtata	agaatgagga	aaaagaggt	atatcaggc	ttctgtcttt	1680
ttttatttt	aacatgttca	taattaaaaa	gtatttcca	gcagtccaa	gatgttaagtt	1740
atcttacaca	taatatgttt	tatttgtta	tttggttatg	aaaatggaat	ctttgttctt	1800
gcacaactgt	aatgttttg	ttgctagata	atacgatttg	agacctaatt	ttgtctttgg	1860
tttccagtgc	atcacagcat	atttgtaaa	atcatgtact	actgcacttg	agcatgaatg	1920
ggtagtagcc	aaactcacaa	attggagtga	tgaacctgt	tatacctaag	ggcaggagca	1980
agccccctac	aatgcagctg	catgggttt	tagtgcctac	tgaattata	atatatatac	2040
atatatata	atatatataa	acccaaagta	gttggaaaga	ttatttgaaa	tgactaactt	2100
tgtgctatct	ttatgaaata	tgttaatgt	agtttttttg	aaacagaac	tttgaattga	2160
aatttaacta	atacttgaac	attttgtata	tatttctttg	tatataattt	tgtgcagttac	2220
caatgacaaa	aatatggtgt	cataataaaa	ccaggtttgt	tgtatttta	gttatgggt	2280
caaagaattt	attcatctct	aacatgat	tggaaaataa	tggatgaaaa	taggaaaaat	2340
gattgttaat	gctgactgt	ggtctaaaa	ggttctggaa	agcagtaatg	tcattttct	2400
aaaaactata	acattctgtt	ggagtat	tttccttaeg	tcaataactt	tcctgcatta	2460
tttggaaattt	ttggctgggg	agaaacagta	gtcaaagctt	tctgaattga	gatactttga	2520
aattccaagt	gtagat	tttggatgt	tttataatg	gccgttttg	gaattacttg	2580
ataagaactt	ttgaaaatgg	aaggattgt	atggcctatt	ttttaagctg	ctttgttagg	2640
ttcccttatgt	tttattaaact	gtctttctc	agtttccatt	tcattttttt	ttttcttagt	2700
tttgtgtact	agtgttttg	tcattttta	catcaacttc	atggtcttg	ttttcatatgg	2760
taatttgcat	tacttaggt	ctatctaata	ggggctttaa	ataaatttgg	tcatatttat	2820
gtgtaaagcac	attttactgt	aaatgtttgg	gtttctgaat	ttaaacatgt	ctgtttat	2880
cagttatgt	taaacaat	ctttaaagtgt	ccgattca	acttgttaat	taaaaaaagtt	2940
atgattaatg	tg					2952

<210> 655
<211> 2618
<212> DNA
<213> Homo sapiens

<400> 655
atgaagcacc tgaagcggtg gtggtcggcc ggccggcgcc tcctgcaccc caccctccctg 60
ctgagcttgg cggggctccg cgttagaccta gatctttacc tgctgctgcc gcccgcacc 120
ctgctgcagg acgagctgct gttcctggc ggcccgccca gctccgccta cgccgtcagc 180
cccttcctgg cctcgggagg gtgggggcgc gcggggccact tgccacccaa gggccgggag 240
ctggaccctg cccgcggcccg cgaggggccag ctgctccggg aggtgcgcgc gctcggggtc 300
cccttcgtcc ctgcaccag cgtggatgca tggctggtgc acagcgtggc tgccgggagc 360
gccccggagg cccacgggct gctcgccgc gcccggccct cgtccaccgg aggagccggc 420
gcccggcgtgg acggccggcag ccaggctgtg cagggggggc gcgggggaccc cccggccgt 480
cgagggtggcc ccttggacgc cggggaaagag gagaaggcac ccggccgaacc gacggctcag 540
gtggccggacg ctggccggatg tgccggcggag gagaatgggg tactaagaga aaagcagcaa 600
gctgtggatc atagtccca gcatgaggaa aatgaagaaa gggtgtcagc ccagaaggag 660
aactcacttc agcagaatga tggatgtgaa aacaaaatag cagagaaacc tgactgggag 720
gcagaaaaga ccactgaatc tagaaatgag agacatctga atgggacaga tactttttcc 780
tctctggaaag acttattcca gttgtttca tcacagcctg aaaatttact ggagggcatc 840
tcattggag atattcccttcc tccaggcagt atcagtgtg gcatgaatttcc ttcagcacat 900
tatcatgtaa acttcagcca ggctataagt caggatgtgaa atcttcatttgc ggccatcttg 960
ctttgtccca acaatacatt tagaaagat ccaacagcaa ggacttcaca gtcacaagaa 1020
ccatcttcgc agttaaatttcc tcataccacc aatcttgagc aaaccttcc tggaaactaat 1080
ttgacaggat ttctttcacc gggtgacaat catatgagga atcttaacaag ccaagaccta 1140
ctgtatgacc ttgacataaa tatatttgcata gataaaact taatgtcatt ggccacagaa 1200
gacaacttttgc atccaaatcga tgtttctcag ctttttgcata aaccaggatttcc tgattctggc 1260
cttttttag attcaagtca caataataacc tctgtcatca agtctaaatcc ctctcactct 1320
gtgtgtatg aagggtctat aggttattgc actgaccatg aatcttagttcc ccatcatgac 1380
tttagaagggtg ctgttaggtgg ctactaccca gaaccaggta agctttgtca cttggatcaa 1440
agtgttctg atttccatgg agatcttaca tttcaacacg tattttcataa ccacacttac 1500
caactacagg caactgcacc agaatctact tctgaacccctt tccctggcc tgggaagtca 1560
cagaagataa ggagtagata ctttgaagac acagatagaa acttgagccg tgatgaacag 1620
cgtgtctaaatg ctttgcataat cccttttctt gtagatggaa ttgtcgccat gcctgttgc 1680
tctttcaata gcatgttaag tagatattat ctgacagacc tacaagtctc acttataccgt 1740
gacatcagac gaagaggaa aaataaaatgtt gctgcgcaga actgtcgtaa acgcaaaatttgc 1800

gacataattt	tgaatttaga	agatgtatgt	tgtacttgc	aagcaaaagaa	ggaaaacttctt	1860
aagagagagc	aaggcacaatg	taaccaaagct	attaacataa	tgaaaacagaa	actgcatgac	1920
ctttatcatg	atatttttag	tagattaaga	gatgaccaag	gtaggccagt	caatccccac	1980
cactatgctc	tccagggtac	ccatgtatgg	agatcttgc	tagtacccaa	agaactggtg	2040
gcctcaggcc	acaaaaagga	aacccaaaag	ggaaaagagaa	agtgagaaga	aactgaagat	2100
ggactctatt	atgtgaagta	gtaatgttca	gaaactgatt	atttggatca	gaaaccattg	2160
aaactgcttc	aagaatttgc	tctttaagta	ctgtctacttg	aataactcg	ttaacgttgt	2220
tttgaagctt	acatggccaa	atgttttagga	cttcaagatc	acacttgg	gcaatctgg	2280
ggagccacaa	ctttcatga	agtgcattgt	atacaaaatt	catagttatg	tccaaagaat	2340
aggttaacat	gaaaacccag	taagactttc	catcttggca	gcccattttt	ttaagatgaa	2400
gttggttact	tcaaaaagag	caaacactgg	ggatcaaatt	attttaagag	gtatccgt	2460
ttaaatgca	aatagecctt	atttcattt	agtttggtag	cactatagtg	agcttttca	2520
acactattt	aatctttata	ttaacttat	aaatttgtct	ttctatggaa	ataaaatttg	2580
tatggattt	aaaaatataac	ttttcccttt	tatacaga			2618

<210> 656
<211> 2128
<212> DNA
<213> *Homo sapiens*

<400> 656
gggcggcag gggcggtgcg cgggaaggga ccccgaccc ggaggtcgcg gagagctggg 60
cagtgttgc cgctggcga ggcgtgggc agcatagaatg gcgtggtcac gggcgcaac 120
gtgaagggtgc tcggcaaggc cgccactcc ctgtcccgca tcggggacga gcttacactg 180
gaacccttgg aggacgggct ctccctccgg acggtaact cttccgcgc tgcctatgcc 240
tgctttctct ttgccecgct ctcttccag caataccagg cagccaaaaa tggtcaggac 300
ctgtgcgcgt gtaagatct gatgaagtct ttccgtctg tttccgcgc actggcgatg 360
ctggagaaga cggtggaaaa atgctgcattt ccctgtatg gcccggacg cccctgggtg 420
gtccagctgc attgcaagtt cgggtgtcgaa aagactcaca acctgtccctt ccaggactgt 480
gatccctgc aggccgtt ccgtcccccc acatgtcccg cgccccagca 540
cggttctgg gggaggctgt tctggccctt tctctgtcac tggctagaatg gacgctgggc 600
atggccgtg gccgcagggt catctgcgc agtaccacg aggaggaggc agacagcact 660
gccaagcca tggtactga gatgtccctt ggagaggagg atttccagca gtcgaggcc 720
caggaagggg tggccatcac ttctgtccctt aaggaattcc gggggctctt gagcttgc 780

gagtcagcaa	acttgaatct	tagcattcat	tttgatgctc	caggcaggcc	cgccatcttc	840
accatcaagg	actctttgt	ggacggccac	tttgtcttg	ccacactctc	agacaccgac	900
tcgcactccc	aggacctggg	ctccccagag	cgtcaccagc	cagtgcctca	gctccaggt	960
cacagcacac	cccacccgga	cgactttgcc	aatgacgaca	ttgactctta	catgatgc	1020
atggaaacca	ctataggcaa	tgagggctcg	cgggtgctgc	cctccatttc	ccttcacct	1080
ggcccccagc	cccccaagag	ccccggtccc	cactccgagg	aggaagatga	ggctgagccc	1140
agtagcgtgc	ctgggactcc	cccacccaag	aagttccgt	cactgttctt	cggctccatc	1200
ctggccctg	tacgtcccc	ccagggcccc	agccctgtgc	tggcggaga	cagtgagggt	1260
gaaggctgaa	ccaagaacct	gaaggctgt	cccagaggcc	ttggactaga	cgaagcccc	1320
gcccagtggca	gaactgggtc	tctcagccct	ggggatcaga	aagggtggct	tgctggagct	1380
gagctgttcc	actgcctctc	gcaggcccc	gctggctgtc	actgtaaagc	tgtcccacag	1440
cggtcggggc	tggcccggtt	tctccccaca	accccccagcc	aatcaggact	ttccagactt	1500
ggccctgtaa	ctactgacgtt	cctacactt	atttctcatt	gagcctcagg	ctatactcca	1560
gctggccaag	gctggaaacc	tgtctccctc	aggctcacct	tcctaaggaa	aatgtcatag	1620
taggtgctgc	tggcccttgg	tgatccagct	tctctgcca	tcatgac	ttccctcctg	1680
aagtcttgg	catgcac	tggtggccgt	ggagctgaca	agttttccctt	gctttcctg	1740
tactctttgg	cgctgacttg	gaattctaa	agccttggac	ccgagtgtgt	ggctagggtt	1800
gcccctggctg	ggggccgggt	ccgagactcc	caagcggctc	tgtgcagaag	agctgccagg	1860
cagtgttta	gatgtgagac	ggaggccatg	gcfagaatcc	agctttgacc	tttattcaag	1920
agaccagatg	ggttgcccc	ggatccggct	gccagccctg	aggccaagca	cggtggaga	1980
cccacgaccc	ggccctggcgt	tgcctcgac	tgcagcctcg	gccccaggat	cctgctcaca	2040
gtcaccccgag	gtgcaggcag	gaagcagccc	tggggactg	gacgtgtca	ttgattcatt	2100
aaaaaaaaaaaa	aagaaaaata	aaaaaaaa				2128

<210> 657
<211> 500
<212> DNA
<213> Homo sapiens

<400> 657						
tttccaaatc	acttcaattt	tttatttcag	caagcagcag	tggcctgtc	aagtttca	60
agtgcggccag	gcatttttt	ctggactca	tatatta	aatggaa	agtgcagggt	120
agggtgccaat	gaagtggcat	taagctattt	ctcttgc	caa	ggccctcc	180
aaatcccgac	cactcactca	cttaaagcaa	tgcagaacgt	ctggcagca	aacagaaaaa	240

ggataaaaat	tcctcagttc	ctcacctgta	ttattaccat	tccctcccc	agggaaaggc	300
aggctagtag	aaattctaca	gaggctagta	aacataggtg	gttatttgca	aaagtagtta	360
gtactttct	caggctataa	aagcaatggc	atttgggggt	cacaatgcta	accatacact	420
gccccctctg	atgactttta	tcccttgagg	ttcgctcatt	ggatgcccc	ctctatagcc	480
agatcgcatc	acacagccctc					500
<210>	658					
<211>	5458					
<212>	DNA					
<213>	Homo sapiens					
<400>	658					
gccccaggc	ctggagaggt	ctgaagaaac	ctgggagcca	gcagccccc	gctccactct	60
gggttctgaa	agcccatctcc	ctgctctcg	gctccccc	ccccacctct	tctcagcc	120
gcagctcaag	ggttgatctc	aggagtccag	gaccaggag	agggagaat	ctgaggaaca	180
cagaacagtg	agcggtgccc	acacccatc	tcccgtaacc	acatctccc	tcaccctcac	240
cctccctgc	tgcccttgg	ccccatccc	ggacccct	atcagctgac	ttcttccagt	300
gtcttgcagg	cccccctgg	ctcctccctc	ccctggctt	tcctaccact	ccccctctat	360
cgccgtctat	ctgttaggtc	cctgggattt	ataaaactgg	gttccgaatg	ctgaataaga	420
gacggtaaga	gccaaggcaa	aggacagcac	tgttctctgc	ctgcctgata	ccctcaccac	480
ctgggaacat	cccccagaca	ccctcttaac	tccgggacag	agatggctgg	oggagcctgg	540
ggccgcctgg	cctgttactt	ggagttcctg	aagaaggagg	agctgaagga	gttccagctt	600
ctgctcgcca	ataaaagcga	ctccaggagc	tcttcgggt	agacacccgc	tcagccagag	660
aagacgagtg	gcatggaggt	ggcctcgta	ctggggctc	agtatggga	gcagcgggcc	720
tgggacctag	ccctccatac	ctgggagcag	atggggctga	ggtcactgt	cgcccaagcc	780
caggaagggg	cagggccacto	tccctcatc	ccctcagcc	caagtgaacc	ccacccctgggg	840
tctcccagcc	aacccacctc	caccgcgtg	ctaattccct	ggatccatga	attgcccggcg	900
gggtgcaccc	agggctcaga	gagaagggtt	ttgagacagc	tgcctgacac	atctggacgc	960
cgctggagag	aaatctctgc	ctcaactcctc	taccaagctc	ttccaagctc	cccagaccat	1020
gagtctccaa	gccaggagtc	acccaacgc	cccacatcca	cagcagtgt	ggggagctgg	1080
ggatccccac	ctcagccca	cctagcaccc	agagagcagg	aggctcctgg	gacccaatgg	1140
cctctggatg	aaacgtcagg	aatttactac	acagaaatca	gagaaagaga	gagagagaaa	1200
tcaagagaaag	gcaggcccc	atgggcagcg	gtggtaggaa	cgccccaca	ggcgacaccc	1260
agcttacagc	cccaccacca	cccatggag	ccttctgtga	gagagagct	ctgttccaca	1320

tggccctgga	aaaatgagga	ttttaaccaa	aaattcacac	agctgctact	tctacaaaaga	1380
cctcacccca	gaaggcaaga	tccccctggc	aagagaagct	ggcctgatta	tgtggaggag	1440
aatcgaggac	attnaattga	gatcagagac	ttatggcc	caggcctgga	tacccaagaa	1500
cctcgcatag	tcatactgc	ggggctgct	ggaattggga	agtcaacact	ggccaggcag	1560
gtgaaggaag	cctggggag	aggccagctg	tatggggacc	gcttccagca	tgtcttctac	1620
ttcagctgca	gagagctgac	ccagttcaag	gtggtgagtc	tcgctgagct	catcgaaaa	1680
gatgggacag	ccactccggc	tcccattaga	cagatcctgt	ctaggccaga	gcccgtgctc	1740
ttcattcteg	atggtgtaga	tgagccagga	tgggtcttgc	aggagccgag	ttctgagctc	1800
tgtctgact	ggagccagcc	acagccggcg	gatgcactgc	tgggcagtt	gctggggaaa	1860
actataacttc	ccgaggcata	cttcttgatc	acggctcgga	ccacactct	gcagaacacct	1920
attcattctt	tggagcaggc	acggtggta	gagggtctgg	ggttctctga	gtccagcagg	1980
aaggaatatt	tctacagata	tttcacagat	gaaaggcaag	caattagac	ctttaggttg	2040
gtcaaataaa	acaaaagact	ctggccctg	tgtcttgc	cctgggtgtc	ctggctggcc	2100
tgcacttgc	tgtatgcagca	gatgaagcgg	aaggaaaaac	tcacactgac	ttccaagacc	2160
accacaaccc	tctgtctaca	ttacattgc	caggctctcc	aagctcagcc	atgggacccc	2220
cagctcagag	acctctgctc	tctggctgt	gagggcatct	ggcaaaaaaa	gacccttttc	2280
agtccagatg	acctcaggaa	gcatgggta	gatggggcca	tcatctccac	cttcttgaag	2340
atgggttattc	ttcaagagca	ccccatccct	ctgagctaca	gcttcattca	cctctgtttc	2400
caagagtct	ttgcagcaat	gtcctatgtc	ttggaggatg	agaaggggag	aggttaaacat	2460
tctaattgc	tcatagattt	ggaaaagacg	ctagaagcat	atgaaataca	tggcctgttt	2520
ggggcatcaa	ccacacgttt	cctattggc	ctgttaagtg	atgaggggga	gagagatgt	2580
gagaacatct	ttcactgcgc	gctgtctcag	gggaggaaacc	tgtgcagtg	ggtccccgtcc	2640
ctgcagctgc	tgctgcagec	acactctctg	gagtcctcc	actgcttgc	cgagactcgg	2700
aaaaaaacgt	tcctgacaca	agtgtatggcc	catttcgaag	aaatgggcat	gtgtgtagaa	2760
acagacatgg	agctttagt	gtgcacttcc	tgcattaaat	tcagccgcca	cgtgaagaag	2820
cttcagctga	ttgaggcag	gcagcacaga	tcaacatgga	gccccaccat	ggtagtccctg	2880
ttcaggtgg	tcccagtac	agatgcctat	tggcagattc	tcttctccgt	cctcaaggtc	2940
accagaaacc	tgaaggagct	ggacctaagt	ggaaactcgc	tgagccactc	tgcagtgaag	3000
agtctttgt	agaccctgag	acgcctcgc	tgcctctgg	agaccctgctg	gttggctggc	3060
tgtggccatca	cagctgagga	ctgcaaggac	cttgcctttg	ggctgagac	caaccagacc	3120

ctgaccggagc tggaccttag cttcaatgtg ctcacggatg ctggagccaa acaccttgc 3180
 cagagactga gacagccgag ctgcaagcta cagcgactgc agctggtagc ctgtggcctc 3240
 acgtctgact gctgecaggta cctggccctct gtgccttagt ccagccccag cctgaaggag 3300
 ctagacctgc agcagaacaa cctggatgac gttggcgtgc gactgctctg tgaggggctc 3360
 aggcatccctg cctgcaaact catacgccctg gggctggacc agacaactct gagtgtatgag 3420
 atgaggcagg aactgaggcgc cctggagcag gagaaacctc agctgctcat ctteagcaga 3480
 cgaaaaaccaa gtgtgtatgac ccctactgag ggcctggata cgggagagat gagtaatagc 3540
 acatecttcac tcaagcggca gagactcgga tcagagaggg cggctccca tggctcgag 3600
 gctaattctca aactcctgga cgtgagcaag atcttccca ttgcgttagat tgcagaggaa 3660
 agctccccag aggttagtacc ggtggaaactc ttgtgcgtgc ctctctctc ctctcaagg 3720
 gacctgcata cgaaggcttt ggggactgac gatgacttct ggggccccac ggggctgtg 3780
 gctactgagg tagttgacaa agaaaagaac ttgtaccgag ttcaacttccc ttagctggc 3840
 tcctaccgct ggcccaacac gggctctgc ttgtgtatga gagaagcggt gaccgttgag 3900
 attgaattctt gtgtgtgggaa ccagtctctg ggttagatca acccacagca cagctggatg 3960
 gtggcaggcgc ctctgtgttca catcaaggct gggctggag ctgtggaaagc tgcacccctc 4020
 cctcaatttg tggctctcca agggggccat gtggacacat ccctgttcca aatggccac 4080
 tttaaagagg aggggatgct cctggagaag ccagccaggg tggagctgca tcacatagtt 4140
 ctggaaaacc ccagttctc ccccttgggaa gtcctcttca aaatgttca taatggccctg 4200
 cgcttcattc cggtcaccc tgggtgttg cttaaccacc gcttcaccc tgaggaagtc 4260
 accttccacc tctacctgtat cccaaatgtac tgctccattc ggaaggaact ggagctctgc 4320
 tatcgaaagcc ctggagaaga ccagctgttc tcggagttct acgttggcca ctggatgca 4380
 gggatcaggc tgcaagtgaa agacaagaaa gatgagactc tgggtgtgggaa ggccttggg 4440
 aaaccaggag atctcatgcc tgcaactact ctgatccctc cagcccgat agccgtaccc 4500
 tcacccctgg atgccccgcg gttgtgtcact tttgtggacc agtatcgata gcagctgata 4560
 gccccggatgtca catcggtggaa gttgtgttca gacaaactgc atggacaggt gctgagccag 4620
 gagcagtagc agagggtgtc ggctgagaac acgaggccca gccagatgcg gaagctgttc 4680
 agcttgatgcg agtccttgggaa ccggaaatgtc aaagatggac tctaccaagc cctgaaggag 4740
 acccatccctc acctcattat ggaactctgg gagaaggcga gcaaaaaggg actcttgc 4800
 ctccagcactt gaaatgtatcaa caccggccct tgacccttgc gtcctggctt tggctgaccc 4860
 ttctttgggtt ctcagttctt ttctctgcac acaagttgc atctgggttgc cttccagca 4920
 ctaaaatgtat ggaacttttgc tgatgcctttt gtcggcattt atgtgtccat gccaggatg 4980

ccacaggggg	ccccagtcca	ggtggcctaa	cagcatctca	gggaatgtcc	atctggagct	5040
ggcaagaccc	ctgcagacct	catagagcct	catctggtg	ccacagcagc	caagcctaga	5100
gcccctccgga	tcccattccag	gcfgaaagag	aataggagg	gacatggAAC	catttgcctc	5160
tggctgtgtc	acagggttag	ccccaaaatt	ggggttcagc	gtgggaggcc	acgtggattc	5220
ttggctttgt	acaggaagat	ctacaagagc	aagccaacag	agtaaaagtgg	aaggaagttt	5280
attcagaaaa	taaaggagta	tcacagctct	ttttagaattt	gtcttagcagg	ctttccagtt	5340
tttaccagaa	aaccctata	aattaaaaat	ttttactta	aatttaagaa	ttaaaaaaaaat	5400
acaaaaaaaga	aaaaatgaaa	ataaaggaaat	aagaagttac	ctactccaaa	aaaaaaaaaa	5458

<210> 659
<211> 1373
<212> DNA
<213> Homo sapiens

<220>						
<221>	misc_feature					
<222>	(241)..(241)					
<223>	n is a, c, g, t or u					
<400> 659						
ctttttttt	ttcgtctggg	ctgccaacat	gccatccaga	ctgaggaaga	cccgaaact	60
tagggccac	gtgagccacg	gccacggcgc	ataggcaagc	accggaaagca	ccccggcgcc	120
cgcggtatg	ctgggtgtct	gcatcaccac	cgatcaact	tgcacaaata	ccaccggcgc	180
tacttgggaa	aagtgggtat	gaagcattac	cacttaaga	ggaaccagag	tttctggcca	240
natgtcaacc	ttgacaaatg	tgtgggactt	gggtcagtga	acagacacgg	gtgaatgtcg	300
ctaaaaacaa	gactgggct	gtcccatca	ttgatgtgt	gcatcgccgc	tactataaag	360
ttctggaaaa	gggaaagctc	ccaaagcagc	ctgtcatcg	gaaggccaaa	ttcttcagca	420
gaagagctga	ggagaagatt	acgagtgtgg	ggggggctctg	tgtctggtg	gttgaagcc	480
acatgggggg	agttcataaa	tggtatacca	aaaaaaaaaga	aaaaaaaaaa	attgtttggg	540
ggggggccca	aaaaattcaa	accacgggtc	gggcgggca	gagatggcaa	cgggcccggg	600
gcfgcagac	ggggacgaca	gggggggttcc	aaaaaaaagc	ggggggccgg	tgaagaacac	660
ggtccgcccag	ggtcgcaggc	acggatcatac	ccccggcg	gcccacacac	gacgacacag	720
acaaaacaaag	agacaagacc	catctgtatgt	cctcgtatctc	aggcgcacgc	gtgccaggag	780
aggcgcgcag	aaacactgca	aaaaactgac	accgcgcagc	gcccacggcc	ccacaaggca	840
aaagtggccac	cgacgcgcgc	aaccggagcg	ccaaagccga	gccaagacga	gaagaaccga	900
cacgacgcagc	acaaggggcg	cgacgcggaa	ggagacagga	gcccacggcg	acggaccaga	960

cacgatgcaa cacacgcaaa gacgcaccca agacagaacg gacagacaca aacaaggaga	1020
aaggcaggaga actaccgacc gcgcacgcaag agacacagaaa aacagagggg aacgaggcag	1080
agaaaaagaga acgagcgcgca acgcgcacgg a tcaaggcgag cagaccacag acagaacacg	1140
ggggcacacag cagaagaacg aagaacaaca gagacgcac agaaaagacaa agaaccgcag	1200
agcagacacc aggccaagag caagagggga gaacacacag cgagggaaacg agcgagagag	1260
agatgagaaa tacagacatg aaggaagacg agcaaggaca cagcgagagt ccaggaacag	1320
qcaqacaacg qagaaagagg agaaggcqcaa cacgaacaga aaaccagacg gag	1373

<210> 660
<211> 690
<212> DNA
<213> *Homo sapiens*

```
<210> 661  
<211> 1189  
<212> DNA  
<213> Homo sapiens
```

```
<400> 661
ggccatgcgc gggggccata ttagcagcgg ttattcggtg agcggtgtgtt gtttattctt 60
ccctggaggatt aagggtctcg tggacatctc aggtcttcag ggtcttccat ctggaaactat 120
ataaaatgtca gaaaacatgt ctcgaagata tgactccagg accactatat tttctccaga 180
aggtcgttta taccaagtta aatatgccat qqaagctttt ggacatqcaq qcacctgttt 240
```

ggaaatttt	gcaaatgtat	gtgtttgtct	tgcagcagag	agacgcaca	tccacaagct	300
tcttgatgaa	gtctttttt	ctgaaaaaat	ttataaaactc	aatgaggaca	tggctgcag	360
tgtggcaggc	ataacttctg	atgctaatgt	tctgactaat	gaactaaggc	tcattgctca	420
aaggatattt	ttacagtatc	aggagccaat	accttgcgt	cagttggta	cagcgctgt	480
tgatataaaa	caagcttata	cacaatttgg	aggaaaacgt	ccctttggtg	tttcattgtct	540
gtacattggc	tgggataagc	actatggctt	tcagctctat	cagagtgacc	ctagtggaaa	600
ttacggggga	tggaaaggca	catgcattgg	aaataatgc	gctgcagctg	tgtcaatgtt	660
gaaacaagac	tataaagaag	gagaatgtac	cttgaagtc	gcacttgc	tagctatcaa	720
agtactaaat	aagaccatgg	atgttagtaa	actctctgt	gaaaaagttg	aaattgcaac	780
actaacaaga	gagaatggaa	agacagtaat	cagagtctc	aaacaaaaag	aagtggagca	840
gttgcataaa	aaacatgagg	aagaagaagc	caaagctgag	cgtgagaaga	aagaaaaaga	900
acagaaaagaa	aaggataaat	agaatcagag	attttattac	tcattttggg	caccatttca	960
gtgtaaaaagc	agtccctactc	ttccacacta	ggaaggctt	acttttttta	actgggtcag	1020
tggaaaaata	ggcatttaca	tactgaattt	ggtccttgc	atttctgtcc	aattgaatac	1080
tttattgtaa	cgatgtatgtt	tacccttcat	ggacgtctta	atcttccaca	cacatcccct	1140
ttttttggaa	taaaatttgg	aaaatggaaa	tgaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1189

<210> 662
<211> 1890
<212> DNA
<213> Homo sapiens

<400> 662	cccgcgagcg	gacgcggcag	cgccctctgtc	tcgctttttt	ttatttttcc	cccctttccc	60
	cttttttttt	ttttttttct	tttcttttct	cccccccccc	cctttcacca	tttccccctcg	120
	gaggcgcttt	ccccggggcag	gggcagagcc	ggttcacccc	ccccctctc	ccccggggcc	180
	gccgccttat	ggcgagagg	agccccctcc	caacccggc	tcgagcggcg	gcccgcctcg	240
	gcccggggtc	atcatggAAC	taattcgctg	accgaceccg	cgccgcgcgc	cgtgcgtccc	300
	gctcgagcgc	cagcgcggcc	ccccatccgc	ttccccccttc	tccctcttc	ccccatccca	360
	gttggccgag	tcgtcccgcg	cgacccgcct	ccgcgcgcct	atgagaatga	ggtggttaacg	420
	ggccccccgga	tgaccccgcg	tcaccactgt	gaggcctaca	gctctgcgg	ggaggaggag	480
	gaggagggaaag	aggaggagaa	ggttagctaca	gcaagctggg	tagcaggcag	atccaaaggaa	540
	tatcatgaag	tttccaggc	cttggaaaaa	ccagagattt	tctttctgt	tggaaaaggc	600
	aatcaactagg	gaagcacaga	tgtggaaaat	gaatgtgcgg	aaaatgcctt	caaatacgaa	660

tgtttctcca tccccagagag atgaagtaat tcaatggctg gccaaactca agtaccaatt 720
 caaccctttac ccagaacat ttgcctcggc tagcagtctt ttggataggt ttttagctac 780
 cgtaaaggct catccaaat acttgagttg tattgcaatc agctgtttt tcctagctgc 840
 caagactgtt gaggaagatg agagaattcc agtactaaag gtattggcaa gagacagttt 900
 ctgtgatgt tcctcatcg aaatttttag aatggagaga attattctgg ataagttgaa 960
 ttggatctt cacacagcca caccattgga ttttcttcat atttccatg ccattgcagt 1020
 gtcaacttagg cctcagttac ttttcagttt gcccaaattt agcccatctc aacatttggc 1080
 agtccttacc aagcaactac ttcaactgtat ggccctgcac caacttctgc aattcaggg 1140
 atccatgtttt gctctggcca ttggatgtctt ggaaatggag aaactcatcc ctgatggct 1200
 ttcttataca attgaactgc ttcagaaagc acagatggat agtcccagt tgatccattt 1260
 tcgggagctt gtggcacatc acctttctac tctgcagttc tccctgcctc tgaattccgt 1320
 ttatgtctac cgtcccccata agcacacccctt ggtgcacctgtt gacaaaggag tggtcagatt 1380
 acatccctcc tctgtcccaag gcccagactt ctccaaaggac aacagcaagc cagaagtgc 1440
 agtcagggat acagcagcct tttaccatca tctcccaactt gccagttgggtt gcaagcagac 1500
 ctctactaaa cgaaaggatggaa agtggatgac ttctatgtat gaatcaaacg 1560
 gctctataat gaagataatg tctcagaaaa ttgtggatgtt gtgtgtggca ctgatttatac 1620
 aagacaagag ggacatgtt ccccttgtcc acctttgcag cctgtttctg tcatgttagtt 1680
 tcaacaagtg ctacccatgtt gtttactaacta aggttagacta ctttggaaat gagaacatgc 1740
 aaaatcagga aaggctgttag aaggaaatat accttaacag gctgatttgg agtgagccag 1800
 aaaaaaaaaaaa taaaactctc attatttgc ttggcttattaaatcagcg ttatctaagc 1860
 acataaaagac caaaaaaaaaaaa aaaaaaaaaaaa 1890

<210> 663
 <211> 4050
 <212> DNA
 <213> Homo sapiens

<400> 663
 ctggcaatcc aggctttctt tggaaagtggc tgtaacatgtt atgaaaagaa agaaaaggagg 60
 accaagagat gaaagaggc tgacacgcgtg gggggcccgag tgggtggcg ggacagtcgt 120
 ctgtttacag ggggtctggc cttccctggc gcctgcctt gtcggccccc cccgagaacc 180
 tccctgcgc agggcagggt ttactcatcc cggcgagggtt atcccatgcg cgagggcggg 240
 cgcaaggccgc gccaaggaaac ccagcaatcc gagtatgcgg catcagccct tcccaccagg 300
 cacttcccttcc tttttcccaagc acgtccagggg agggaggcc gggcacttat aaactcgagc 360

cctggccat ccgcgtgtca gaggctgcct cgcaaaaaaa gggggcgt gggcgacagg caagaagtgt	420
ctgggctggg acggcacgga gaggctgtcg ccatacggtt cttgtcccc tctgtccgg	480
cacggccctg tccgcgtgtcc cgcgtttcc cggggccctg cacggggccgc gcctggtaa	540
catgcttggg gtcctggtcc ttggcgcgct ggccctggcc ggcctgggtt tccccgcacc	600
cgcagagccg cagccgggtg gcagccaggta cggtcgagcac gactgtttcg cgctctaccc	660
ggggccccggg accttccctca atgcccgtca gatctgcac ggcactggg gccacctaatt	720
gacagtgcgc tcctcggtgg ctgcgtatgt catttccttg ctactgaacg ggcacggccg	780
cgttggccgc cggcgccctt ggttcggcc gcaatgtgcac cccggctgcg ggcaccccaaa	840
ggccctcgggg cccctgcggg gtttcggatg ggttacgggaa gacaacaaca ccagctatacg	900
cagggtggca cggctcgacc tcaatggggc tccccctctgc ggcacgggtt ggcgtcgatgt	960
ctccgtgtgt gaggccactg tgcccagcga gccgatctgg gaggcgacg agtgcgaagt	1020
gaaggccat ggcttcctct gggatgttcca cttcccgacc acctgcggc cactggctgt	1080
ggagcccgcc gccgcggctg cggccgtctc gatcacctac ggcaccccg tccgcggcccg	1140
cggagccggac ttccaggcgcc tgccgggtggg cagctccgc gccgggtggctc ccctcggttt	1200
acagctaatt tgccacccgcg cggccggagc ggtccaggggg cactggggca gggaggccgc	1260
gggcgttgg gactgcggcg tggagaacgg cggctgcgag cacgcgtgca atgcgtatccc	1320
tggggctccc cgctgtccact gcccggccgg cggccggctg caggcagacg ggcgttcctg	1380
caccgcattc ggcacgcgtt cctgcacacg cctctgcgag cacttctgtt tccccaaacc	1440
cgaccaggccg ggctctact cgtgcgtgtt cggacccggc taccggctgg cggccgacca	1500
acaccgggtc gaggacgtgg atgactgtat actggagccc agtccgtgtc cgcacgcgtt	1560
tgtcaacaca cagggtggct tggatgtccca ctgttacccct aactacgacc tgggtggacgg	1620
cgagtggtgtt gggccgtgg acccggtt cagagccaaac tgcgagtacc agtgcgcagcc	1680
cctgaaccaa actagctacc tctgcgtctg cggcgaggcc ttcgcggccaa tccccacga	1740
ggccgcacagg tgccagatgt tttgcacca gactgcgtgtt ccagccgact ggcaccccaa	1800
cacccaggct agctgtgtt gccctgaagg ctacatccgtt gacgcgggtt tcatctgcac	1860
ggacatcgac gagtgcgaaa acggccggctt ctgtccggg gtgtgccaca acctccccgg	1920
tacccgttgcg tgcgttgcgtt gggccggactc ggcccttgcg cggccacattt gcaccgttgc	1980
tgacttcggc aagggtggacg gtggcgacag cggctctggc gagccccccgc ccagccgcac	2040
ggccggctcc accttgcgtt ctccggccgtt ggggtcgatgtt catccgggtt tgctcatagg	2100
catctccatc ggcacgcgtt ggcgttgggtt ggcgttccctt gccacctgcg	2160
caagaagcag ggcacggccaa gggccaaatgggat tgcgcggccccc tttccaaaggaa	2220

ggtagtgctg cagcacgtgc ggaccgagcg gacgcgcag agactctgag cggcccccgt	2280
ccaggagect ggctccgtcc aggagctgtg cctcctcacc cccagcttg ctaccaaagc	2340
accttagctg gcattacaga tggagaagac cctcccccga ccccccaagc tgtttcttc	2400
tatccatgg ctaactggcg aggggggtat tagagggagg agaatgagcc tcggccttct	2460
ccgtgacgtc actggaccac tggcaatga tggcaattt gtaacgaaga cacagactgc	2520
gatttgtccc aggtcctcac taccgggcgc aggagggtga gcgttattgg tcggcagcct	2580
tctggcaga cttgaccc tcgtggctagg gatgactaa atatttattt tttaatgt	2640
tttaggtttt tgttgttcc ctgttttctt acctgtatgt ctccagttt cactttgcac	2700
agctctccgg tctctcttc tctacaaaact cccactgtc atgtgacagg taaactatct	2760
tggtaatatt ttttttccata gccccttcac atttatgaag caagccccac ttatccccca	2820
ttcttcctag ttttccttc ccaggaactg ggc当地actca cctgagtcac cctacccgt	2880
cctgacccta ctcttttgc tcatcttagct gtctgctcag acagaacccc tacatgaaac	2940
agaaacaaaa acactaaaaaa taaaaatggc catttgcattt ttccaccat ttgctatattt	3000
atccctgaaat ttccaggatcc cagagaaaaa taatttaaa caaagggtt agatgtaaaa	3060
ggtattaaat tgatgttgcg ggactgtcat agaaattaca cccaaagagg tattttatctt	3120
tactttaaa cagttagctt gaattttgtt gctgttttgc ttgtactga aaaatggtaa	3180
ttgttgcataa ttttctttagt caatccctt ttttgttattt attacttattt ttgcacagtgc	3240
ttgaaaatgt tcagaagggtt gctcttagatt gagagaagag acaaaccactt cccaggagac	3300
agttcaagaa agcttcaaac tgcatgatc atgccaatta gcaatttgcactgttc	3360
cttgcactg gtagacccaa ataaaaccag ctctactgtt cttgtggat tgggagcttgc	3420
ggaatggatc ctggaggatg cccattttgg gccttagcctt aatcagggtcc tcagagaattt	3480
tctaccattt cagagaggcc ttttggatg tggcccttgc acaagaatttgc gaaatgtgcc	3540
tgcccatggg agctgggttag aatgcagaa ctcttagtgc cacccttgcactgatggat	3600
aatctatatt taacaagatc tgccagggtt gtgtctgtc agtaatttgc ggacaaccat	3660
tccagactgc ttccaaatttt ctggaaataca tgaaatatacg atcagttata agtagcaggc	3720
caagttaggc ctttattttc aagaaactga ggaattttctt ttgtgttagct ttgtctttgc	3780
gtagaaaagg cttagtacac agctttagac actggccacac agggctgtca aggtctttgg	3840
ttcagactga cttagaaatgc aatctgtttt ctttttttttgc aataaaatgt atcatagaaaa	3900
tgtaactttt gtaagacaaa ggtttccctc ttcttttttgc taaactcaaa atatttgc	3960
atagttattt atttatttgc gataatcttag aacacaggca aaatccctgc ttatgcacatc	4020

acttgtacaa aataaacaaa taacaatgtg

4050

<210> 664
<211> 1258
<212> DNA
<213> Homo sapiens

<400> 664	
ccgggctcta cccagagcaa gaccctgatg gctgcggtgt ttctgtaac gctttatgaa	60
tactcgcgcg tttctacat cgcggtggtc ttacacctgt tcatcggtac caccggcctg	120
gtattggat gggttgggtt ggtatgttcca gtaattctga gaaattcaga agagacccag	180
ttcagcacaa gagttttcaa aaagcaaatg agacaagtca agaattcctt tggcttagag	240
atcactaatac catcttcaggc ttcaattaca actggcataa ccttgacaac agattgcctt	300
gaagatagcc tccttacatg ctactgggg tgcaagtgttc aaaaattata tgaagctctg	360
cagaaggcatg tttattgttt cagaataagc actccccaaag cattagaaga tgctctgtat	420
agtgaatatac tctatcagga acagtatTTTt attaaaaagg atagcaaaga agaaaatat	480
tgccagttac caagagatac taaaattgaa gactttggta cagtagccatg atctcgctat	540
ccattggtag cgctattgtac cttagctgtat gaggatgacc gggaaattta tgatattatt	600
tccatgggtgt cagtgattca tattcctgtat aggacttata aactatcctg cagaatattt	660
tatcaatatt tactttggc tcaaggtcaa ttcatgtatc ttaagcaact ttcatgtct	720
gcaaataata atttcactcc ctccaaacaat ttcttttcag aaaaaaaaaa cacagacaga	780
agtttgggg aaaaggtggg actctctgaa agtgaagttg agccatcgga agagaacagc	840
aaggactgtg ttgtttgcca gaatggact gtgaactggg tacttttacc atgcagacac	900
acatgectgt gtgatggctg tgtgaagtat tttagcagt gccaaatgtg caggcagttt	960
gttcaggaaat cttttgcact ttgcgttcaa aaagagcaag ataaaagacaa accgaagact	1020
ctttgaagac atcgttaaacac tgaaaagtac actttctact aaagatgcag aaattgtat	1080
tcttggaaatt catcataaca tggaatctac agtactgacc atcaatgaaa attatattt	1140
aacttcatat ttgttatggta cttggatgtat aaaaattaat tattccttgc tgcttagtga	1200
atgaataactg gaatccatct gtgttgatac aataaaaaatt cattcaactc ttgaaaag	1258

<210> 665
<211> 21
<212> DNA
<213> Homo sapiens

<400> 665
gtaaccgggtt gaacccatt c

21

<210> 666
<211> 20
<212> DNA
<213> Homo sapiens

<400> 666
cacaatgtgg ccgaggactt 20

<210> 667
<211> 20
<212> DNA
<213> Homo sapiens

<400> 667
caccgatctc aggggttctg 20

<210> 668
<211> 23
<212> DNA
<213> Homo sapiens

<400> 668
tccaaacatca acatcttggt cag 23

<210> 669
<211> 21
<212> DNA
<213> Homo sapiens

<400> 669
ccaaaagaca ccagccactc a 21

<210> 670
<211> 20
<212> DNA
<213> Homo sapiens

<400> 670
ccctccctcc atcgaaaaatct 20

<210> 671
<211> 21
<212> DNA
<213> Homo sapiens

<400> 671
tggggtcaag actgacaatc c 21

<210> 672
<211> 23
<212> DNA
<213> Homo sapiens

<400> 672
gagggaaaaag cgagagaaaa gga 23

<210> 673
<211> 20
<212> DNA
<213> Homo sapiens

<400> 673
ccccctccagg atgtgtctgt 20

<210> 674
<211> 20
<212> DNA
<213> Homo sapiens

<400> 674
caagagcctg atgccccact 20

<210> 675
<211> 20
<212> DNA
<213> Homo sapiens

<400> 675
cctactgctt tgccccaaga 20

<210> 676
<211> 20
<212> DNA
<213> Homo sapiens

<400> 676
gacctccccc ggtgaagaca 20

<210> 677
<211> 20
<212> DNA
<213> Homo sapiens

<400> 677
caacaggacg ccctctgatt 20

<210> 678
<211> 20
<212> DNA
<213> Homo sapiens

<400> 678
ctgtcagcag gaagcaacga 20

<210> 679
<211> 20
<212> DNA
<213> Homo sapiens

<400> 679
caaagggttggagctgatg

20

<210> 680
<211> 21
<212> DNA
<213> Homo sapiens

<400> 680
agtttgctgg cctgtacttc g

21

<210> 681
<211> 20
<212> DNA
<213> Homo sapiens

<400> 681
ccaaaccacaa gcacacagga

20

<210> 682
<211> 20
<212> DNA
<213> Homo sapiens

<400> 682
tccacatgcc aaaagccaca

20

<210> 683
<211> 20
<212> DNA
<213> Homo sapiens

<400> 683
gccaccttctt gctgtttctc

20

<210> 684
<211> 20
<212> DNA
<213> Homo sapiens

<400> 684
ccccgttccc ctctatgacc

20

<210> 685
<211> 20
<212> DNA
<213> Homo sapiens

<400> 685
ggaccaggc ttggagctga

20

<210> 686
<211> 20
<212> DNA

<213> Homo sapiens

<400> 686
ctgccctgtta ggaaggcaga

20

<210> 687
<211> 20
<212> DNA
<213> Homo sapiens

<400> 687
ttcctgggttc gggtgttacg

20

<210> 688
<211> 20
<212> DNA
<213> Homo sapiens

<400> 688
ggcaatccca ggaagacaaa

20

<210> 689
<211> 25
<212> DNA
<213> Homo sapiens

<400> 689
tcaggttatgt tgcctttatg gtttc

25

<210> 690
<211> 20
<212> DNA
<213> Homo sapiens

<400> 690
tgctgtacca cccacattgc

20

<210> 691
<211> 20
<212> DNA
<213> Homo sapiens

<400> 691
cacatccagc tccttcagca

20

<210> 692
<211> 20
<212> DNA
<213> Homo sapiens

<400> 692
cctaccccac cccacacctaaa

20

<210> 693

<211> 20
<212> DNA
<213> Homo sapiens

<400> 693
gactggatg gcctcaagtg 20

<210> 694
<211> 20
<212> DNA
<213> Homo sapiens

<400> 694
ggcaggtact cagtgcacca 20

<210> 695
<211> 20
<212> DNA
<213> Homo sapiens

<400> 695
ggagagggc attccaatct 20

<210> 696
<211> 20
<212> DNA
<213> Homo sapiens

<400> 696
cacctgcgtg atgaggagaa 20

<210> 697
<211> 20
<212> DNA
<213> Homo sapiens

<400> 697
cttgaagccc tttgttgtgc 20

<210> 698
<211> 20
<212> DNA
<213> Homo sapiens

<400> 698
ctccctgccga caagaccaac 20

<210> 699
<211> 20
<212> DNA
<213> Homo sapiens

<400> 699
tacttccccgc acttcgacct 20

<210> 700
<211> 21
<212> DNA
<213> Homo sapiens

<400> 700
aggcagaatc cagatgctca a 21

<210> 701
<211> 20
<212> DNA
<213> Homo sapiens

<400> 701
ggcagaagcc atacccttga 20

<210> 702
<211> 20
<212> DNA
<213> Homo sapiens

<400> 702
gtgaaagagg ctggagggtga 20

<210> 703
<211> 20
<212> DNA
<213> Homo sapiens

<400> 703
cagctttggc aacctgtcct 20

<210> 704
<211> 20
<212> DNA
<213> Homo sapiens

<400> 704
gcactacccc ggagacttca 20

<210> 705
<211> 20
<212> DNA
<213> Homo sapiens

<400> 705
tatgactgca gggtgagca 20

<210> 706
<211> 20
<212> DNA
<213> Homo sapiens

<400> 706

agtgaccatc tccccatcca

20

<210> 707
<211> 20
<212> DNA
<213> Homo sapiens

<400> 707
tacacctgcc aagtggagca

20

<210> 708
<211> 20
<212> DNA
<213> Homo sapiens

<400> 708
ctgttgtgtgg ggtggggtat

20

<210> 709
<211> 20
<212> DNA
<213> Homo sapiens

<400> 709
gaccaaggaa atcggcctct

20

<210> 710
<211> 20
<212> DNA
<213> Homo sapiens

<400> 710
cacgcgacat ccaatccata

20

<210> 711
<211> 21
<212> DNA
<213> Homo sapiens

<400> 711
ggctgtgttc caacaaccat t

21

<210> 712
<211> 20
<212> DNA
<213> Homo sapiens

<400> 712
gttagtgacg gcagcgtacg

20

<210> 713
<211> 20
<212> DNA
<213> Homo sapiens

<400> 713
cctcggttcc aaggaggcaga

20

<210> 714
<211> 20
<212> DNA
<213> Homo sapiens

<400> 714
gcgtgtgtac acgggactga

20

<210> 715
<211> 20
<212> DNA
<213> Homo sapiens

<400> 715
ctgaagagta cgcgctgcaa

20

<210> 716
<211> 20
<212> DNA
<213> Homo sapiens

<400> 716
gtgttgggag ggcagaagtg

20

<210> 717
<211> 20
<212> DNA
<213> Homo sapiens

<400> 717
tgaagaccac ctcccaggtc

20

<210> 718
<211> 20
<212> DNA
<213> Homo sapiens

<400> 718
ccgtgtgtct cgtctcctga

20

<210> 719
<211> 21
<212> DNA
<213> Homo sapiens

<400> 719
tcaaagcagc agagagggaa c

21

<210> 720
<211> 21

<212> DNA
<213> Homo sapiens

<400> 720
ggttgagagt gtgggtcttg c

21

<210> 721
<211> 26
<212> DNA
<213> Homo sapiens

<400> 721
gccaataaaag aaattaacac ccaaaaa

26

<210> 722
<211> 20
<212> DNA
<213> Homo sapiens

<400> 722
tggagcagag gggctgaata

20

<210> 723
<211> 20
<212> DNA
<213> Homo sapiens

<400> 723
atccctgcttg ccctgtacct

20

<210> 724
<211> 22
<212> DNA
<213> Homo sapiens

<400> 724
cctcagccat ctttgtgagt cc

22

<210> 725
<211> 20
<212> DNA
<213> Homo sapiens

<400> 725
ggcgatgtgg acaaatgtga

20

<210> 726
<211> 20
<212> DNA
<213> Homo sapiens

<400> 726
gccgcgtcac ttctctgatt

20

<210> 727
<211> 22
<212> DNA
<213> Homo sapiens

<400> 727
agtgggacctt tgactggaga aa 22

<210> 728
<211> 20
<212> DNA
<213> Homo sapiens

<400> 728
tcatcttggaa gggaccaagg 20

<210> 729
<211> 20
<212> DNA
<213> Homo sapiens

<400> 729
atgtgggagg gaggcagacag 20

<210> 730
<211> 20
<212> DNA
<213> Homo sapiens

<400> 730
ggagggactg cgtggatttg 20

<210> 731
<211> 21
<212> DNA
<213> Homo sapiens

<400> 731
gggataggtg gagggatgaa g 21

<210> 732
<211> 21
<212> DNA
<213> Homo sapiens

<400> 732
tcaaacaact gtggccagtg a 21

<210> 733
<211> 20
<212> DNA
<213> Homo sapiens

<400> 733
accctgagca actgggttca 20

<210> 734
<211> 20
<212> DNA
<213> Homo sapiens

<400> 734
cccggtgttt tccggtagtg

20

<210> 735
<211> 20
<212> DNA
<213> Homo sapiens

<400> 735
ctggtaactgg ccctctgtgg

20

<210> 736
<211> 20
<212> DNA
<213> Homo sapiens

<400> 736
accaacagag tggggtttgg

20

<210> 737
<211> 20
<212> DNA
<213> Homo sapiens

<400> 737
cggcagattt tcaagctcca

20

<210> 738
<211> 20
<212> DNA
<213> Homo sapiens

<400> 738
gcaatgccag ctgaatagca

20

<210> 739
<211> 24
<212> DNA
<213> Homo sapiens

<400> 739
tgatactccc agtcttgtca ttgc

24

<210> 740
<211> 20
<212> DNA
<213> Homo sapiens

<400> 740	
acgaaqcctgc accaaaagtct	20
<210> 741	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 741	
ctacacctcaag ggggactgttc ttt	23
<210> 742	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 742	
gcacgggcta caagctgag	19
<210> 743	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 743	
agcacccgtgt gggacaataa c	21
<210> 744	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 744	
gactgtgtc cggcagttct	20
<210> 745	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 745	
ctgaggcaga cagcagctca	20
<210> 746	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 746	
ttcgatgggc ccaattctta	20
<210> 747	
<211> 20	
<212> DNA	

<213> Homo sapiens

<400> 747

aattgttgg a gggccctca

20

<210> 748

<211> 24

<212> DNA

<213> Homo sapiens

<400> 748

agtgattgac ttggcatgaa aatg

24

<210> 749

<211> 22

<212> DNA

<213> Homo sapiens

<400> 749

ctgggtggag gtctccataa ac

22

<210> 750

<211> 20

<212> DNA

<213> Homo sapiens

<400> 750

ctgggtcacc tggacaacct

20

<210> 751

<211> 21

<212> DNA

<213> Homo sapiens

<400> 751

ggccacaaga ataaggcagca a

21

<210> 752

<211> 20

<212> DNA

<213> Homo sapiens

<400> 752

tttgggcagc ttggtaagt

20

<210> 753

<211> 29

<212> DNA

<213> Homo sapiens

<400> 753

ttcaaagttt aaagcaaaca cttacagaa

29

<210> 754

<211> 20
<212> DNA
<213> Homo sapiens

<400> 754
acgagtgagg ttgggtgtcg 20

<210> 755
<211> 20
<212> DNA
<213> Homo sapiens

<400> 755
tgtgtgtgtc tgtgcgtgtc 20

<210> 756
<211> 20
<212> DNA
<213> Homo sapiens

<400> 756
agccgaggac tggaagaagg 20

<210> 757
<211> 20
<212> DNA
<213> Homo sapiens

<400> 757
ggggatgag ttctggcagt 20

<210> 758
<211> 21
<212> DNA
<213> Homo sapiens

<400> 758
ggggctactg gagaggagag a 21

<210> 759
<211> 20
<212> DNA
<213> Homo sapiens

<400> 759
tcaatgcagg cgtccaaagta 20

<210> 760
<211> 24
<212> DNA
<213> Homo sapiens

<400> 760
acgtgatttt gctgtagaag atgg 24

<210> 761
<211> 31
<212> DNA
<213> Homo sapiens

<400> 761
gactatgagg aatatggca agacatagaa t

31

<210> 762
<211> 20
<212> DNA
<213> Homo sapiens

<400> 762
ctgagctctg gctttgcctt

20

<210> 763
<211> 20
<212> DNA
<213> Homo sapiens

<400> 763
agtccagcct gagggctctt

20

<210> 764
<211> 20
<212> DNA
<213> Homo sapiens

<400> 764
tgcagatgag acagcaacca

20

<210> 765
<211> 22
<212> DNA
<213> Homo sapiens

<400> 765
tgccaaaatc ttttctccct tc

22

<210> 766
<211> 20
<212> DNA
<213> Homo sapiens

<400> 766
acaggagagac ccgtccattt

20

<210> 767
<211> 21
<212> DNA
<213> Homo sapiens

<400> 767

aaacagaggc catggcagaa t

21

<210> 768
<211> 25
<212> DNA
<213> Homo sapiens

<400> 768
tgccgtgtta ttgttattagg tgtca

25

<210> 769
<211> 20
<212> DNA
<213> Homo sapiens

<400> 769
gtccaccact tgctggggttt

20

<210> 770
<211> 20
<212> DNA
<213> Homo sapiens

<400> 770
aagccagaag ccaggaggag

20

<210> 771
<211> 24
<212> DNA
<213> Homo sapiens

<400> 771
tgctgtactc aggtggcact aact

24

<210> 772
<211> 22
<212> DNA
<213> Homo sapiens

<400> 772
tcccaaattg aatcactgct ca

22

<210> 773
<211> 18
<212> DNA
<213> Homo sapiens

<400> 773
tccactgcca tcctccca

18

<210> 774
<211> 20
<212> DNA
<213> Homo sapiens

<400> 774	
tagggcctgg cttctgtctg	20
<210> 775	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 775	
caaacatcac tctgctgctt agaca	25
<210> 776	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 776	
gattaattca ctttccagtg tctcg	25
<210> 777	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 777	
tggcatgtca gacagaactt ga	22
<210> 778	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 778	
tttgtggcttc ctcaagtcct	20
<210> 779	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 779	
gctgacccccc ctcgcagaga	20
<210> 780	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 780	
tccctcagtc ccaactcctt t	21
<210> 781	
<211> 19	

<212> DNA
<213> Homo sapiens

<400> 781
ttcatcttcc ccaagtgcg

19

<210> 782
<211> 19
<212> DNA
<213> Homo sapiens

<400> 782
cttgtcttcc gcactgcac

19

<210> 783
<211> 23
<212> DNA
<213> Homo sapiens

<400> 783
tgggaggtttt gctgattcct tct

23

<210> 784
<211> 28
<212> DNA
<213> Homo sapiens

<400> 784
ctaaggccaga aacactgtaa aactacca

28

<210> 785
<211> 21
<212> DNA
<213> Homo sapiens

<400> 785
cccatccccca catcatattc a

21

<210> 786
<211> 21
<212> DNA
<213> Homo sapiens

<400> 786
ccttcacgca cgcttctacc a

21

<210> 787
<211> 20
<212> DNA
<213> Homo sapiens

<400> 787
ttgcggcggtg tataccaatg

20

<210> 788
<211> 20
<212> DNA
<213> Homo sapiens

<400> 788
gtggtgccctt ctggagagga

20

<210> 789
<211> 20
<212> DNA
<213> Homo sapiens

<400> 789
tggttgtgcca gggaaaggttt

20

<210> 790
<211> 22
<212> DNA
<213> Homo sapiens

<400> 790
cattcttcat cctcacccag ga

22

<210> 791
<211> 27
<212> DNA
<213> Homo sapiens

:
<400> 791
catgcatttga gagtgattat ttccttt

27

<210> 792
<211> 24
<212> DNA
<213> Homo sapiens

<400> 792
tctcatttagc ctgaatgtgc cata

24

<210> 793
<211> 20
<212> DNA
<213> Homo sapiens

<400> 793
cgaggaggat ttccggacct

20

<210> 794
<211> 21
<212> DNA
<213> Homo sapiens

<400> 794
ccttggaaaga tctgaccgca a

21

<210> 795
<211> 20
<212> DNA
<213> Homo sapiens

<400> 795
gaggtggagc tggtgcagat

20

<210> 796
<211> 20
<212> DNA
<213> Homo sapiens

<400> 796
gcccagcccta ggatctgaca

20

<210> 797
<211> 20
<212> DNA
<213> Homo sapiens

<400> 797
gcagactgag cgggaaaaga

20

<210> 798
<211> 20
<212> DNA
<213> Homo sapiens

<400> 798
tcccaaccga acttcttcca

20

<210> 799
<211> 32
<212> DNA
<213> Homo sapiens

<400> 799
tctacatgca atgttagtaa ttctgaagt tt

32

<210> 800
<211> 20
<212> DNA
<213> Homo sapiens

<400> 800
ccaggaggat ggcaaagaga

20

<210> 801
<211> 20
<212> DNA
<213> Homo sapiens

<400> 801
cgaccatcca agggagagtg

20

<210> 802
<211> 20
<212> DNA
<213> Homo sapiens

<400> 802
gggctccagg actccctcta

20

<210> 803
<211> 20
<212> DNA
<213> Homo sapiens

<400> 803
gcctcttccc atctcaacca

20

<210> 804
<211> 20
<212> DNA
<213> Homo sapiens

<400> 804
ggtggatcag gccgttattg

20

<210> 805
<211> 20
<212> DNA
<213> Homo sapiens

<400> 805
aggggagacc gaagtgaagg

20

<210> 806
<211> 23
<212> DNA
<213> Homo sapiens

<400> 806
aaaaccgtat cttcccttgt tgt

23

<210> 807
<211> 20
<212> DNA
<213> Homo sapiens

<400> 807
aagaggcagc cgagagaatg

20

<210> 808
<211> 20
<212> DNA

<213> Homo sapiens

<400> 808

accccgctgtt tccagagttg

20

<210> 809

<211> 24

<212> DNA

<213> Homo sapiens

<400> 809

tggggctaact atgcagagca tgtta

24

<210> 810

<211> 20

<212> DNA

<213> Homo sapiens

<400> 810

tggggcttct gagagattgg

20

<210> 811

<211> 20

<212> DNA

<213> Homo sapiens

<400> 811

cttaaacttg gccccggcatt

20

<210> 812

<211> 20

<212> DNA

<213> Homo sapiens

<400> 812

cggtgcccttc tttaggagctg

20

<210> 813

<211> 21

<212> DNA

<213> Homo sapiens

<400> 813

ccttaggggag accgaagtga a

21

<210> 814

<211> 20

<212> DNA

<213> Homo sapiens

<400> 814

tgctgcggca tagaatcaag

20

<210> 815

<211> 19
<212> DNA
<213> Homo sapiens

<400> 815
tcgttgcaat cctcggtca

19

<211> 816
<212> 20
<213> DNA
<213> Homo sapiens

<400> 816
agcagcagg ggaatccaag

20

<211> 817
<212> 20
<213> DNA
<213> Homo sapiens

<400> 817
ggccatttca ggcagcataa

20

<211> 818
<212> 21
<213> DNA
<213> Homo sapiens

<400> 818
ttctaccctg cgagatcac a

21

<211> 819
<212> 20
<213> DNA
<213> Homo sapiens

<400> 819
gcttgtgcat gaccctgatg

20

<211> 820
<212> 20
<213> DNA
<213> Homo sapiens

<400> 820
ttgccctctc ctcacacgta

20

<211> 821
<212> 20
<213> DNA
<213> Homo sapiens

<400> 821
cccctggagg ttgtcttcaa

20

<210> 822
<211> 22
<212> DNA
<213> Homo sapiens

<400> 822
tgcccttgcta cctcatcaga ga 22

<210> 823
<211> 20
<212> DNA
<213> Homo sapiens

<400> 823
agagaggggcc tgccttaacc 20

<210> 824
<211> 19
<212> DNA
<213> Homo sapiens

<400> 824
tccccattcca ccacagtgcc 19

<210> 825
<211> 22
<212> DNA
<213> Homo sapiens

<400> 825
tcaaggatca gtttcacccca ca 22

<210> 826
<211> 19
<212> DNA
<213> Homo sapiens

<400> 826
tttcccgagc ttcgcaatg 19

<210> 827
<211> 20
<212> DNA
<213> Homo sapiens

<400> 827
ggcattcctgg gctacactga 20

<210> 828
<211> 20
<212> DNA
<213> Homo sapiens

<400> 828

gcacgacat gaggtgacag

20

<210> 829
<211> 20
<212> DNA
<213> Homo sapiens

<400> 829
ccAACCAAAA TTGCCCCTTT

20

<210> 830
<211> 20
<212> DNA
<213> Homo sapiens

<400> 830
TGTAGGCC CTTTCCTG

20

<210> 831
<211> 19
<212> DNA
<213> Homo sapiens

<400> 831
CTCATCATCC TGGCCGTCA

19

<210> 832
<211> 20
<212> DNA
<213> Homo sapiens

<400> 832
TGTCACTGC AGCCCATTG

20

<210> 833
<211> 21
<212> DNA
<213> Homo sapiens

<400> 833
TTCCAAAGC CAAGGTGAGA A

21

<210> 834
<211> 21
<212> DNA
<213> Homo sapiens

<400> 834
AAAGTTGCTG TGGTTGGTTG

21

<210> 835
<211> 21
<212> DNA
<213> Homo sapiens

<400> 835
gaccatccca aaatgcttca a

21

<210> 836
<211> 21
<212> DNA
<213> Homo sapiens

<400> 836
tggcgccaac tttaaacatt c

21

<210> 837
<211> 20
<212> DNA
<213> Homo sapiens

<400> 837
cctcaacccc atgctttacg

20

<210> 838
<211> 20
<212> DNA
<213> Homo sapiens

<400> 838
tcttcggctg ctccctgactt

20

<210> 839
<211> 20
<212> DNA
<213> Homo sapiens

<400> 839
tttctcctcc tccccctcagc

20

<210> 840
<211> 20
<212> DNA
<213> Homo sapiens

<400> 840
ttgaggggccc ttgacaaaaag

20

<210> 841
<211> 24
<212> DNA
<213> Homo sapiens

<400> 841
ccattatgtt gctactgagc gttt

24

<210> 842
<211> 22

<212> DNA
<213> Homo sapiens

<400> 842
agggaaagtt tgtaccccat tg

22

<210> 843
<211> 21
<212> DNA
<213> Homo sapiens

<400> 843
ggctttag ctgcttgcc t

21

<210> 844
<211> 20
<212> DNA
<213> Homo sapiens

<400> 844
tcgtcggtt ggttttgtt

20

<210> 845
<211> 20
<212> DNA
<213> Homo sapiens

<400> 845
tccggcatcc ctgctattta

20

<210> 846
<211> 20
<212> DNA
<213> Homo sapiens

<400> 846
gatgcagaga gccagcaagg

20

<210> 847
<211> 23
<212> DNA
<213> Homo sapiens

<400> 847
ccccgtt acacaaggcca aaa

23

<210> 848
<211> 20
<212> DNA
<213> Homo sapiens

<400> 848
ctgactctgc ccgacttcct

20

<210> 849	
<211> 32	
<212> DNA	
<213> Homo sapiens	
<400> 849	
tccctatcta ataaaatgcct ttaattgttc tc	32
<210> 850	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 850	
gcgcatggt gtctcatcgt t	21
<210> 851	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 851	
tgacatgact ggctggttgc	20
<210> 852	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 852	
cacgacgtct ccgcgtatct	20
<210> 853	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 853	
agttAACGGC ccaagtggtg	20
<210> 854	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 854	
agctgtttca tgttagctgct ttagg	25
<210> 855	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 855	
gaaacacacgc ccgatggtg	19

<210> 856
<211> 20
<212> DNA
<213> Homo sapiens

<400> 856
ttccttcac cacccacacc 20

<210> 857
<211> 19
<212> DNA
<213> Homo sapiens

<400> 857
gaccgcctcct tcccccttct 19

<210> 858
<211> 20
<212> DNA
<213> Homo sapiens

<400> 858
cacccagtgcc taccgagaca 20

<210> 859
<211> 18
<212> DNA
<213> Homo sapiens

<400> 859
tgtcgctgct gtgggtgc 18

<210> 860
<211> 20
<212> DNA
<213> Homo sapiens

<400> 860
agccatgaag cacatggtca 20

<210> 861
<211> 20
<212> DNA
<213> Homo sapiens

<400> 861
caatatgtgc cgccagtggtt 20

<210> 862
<211> 28
<212> DNA
<213> Homo sapiens

<400> 862
aatcttacac acaaatgaaa atgcaagt

28

<210> 863
<211> 20
<212> DNA
<213> Homo sapiens

<400> 863
atgttgcggt aatcgaggaa

20

<210> 864
<211> 20
<212> DNA
<213> Homo sapiens

<400> 864
cctgggtgtt tgggtcagat

20

<210> 865
<211> 22
<212> DNA
<213> Homo sapiens

<400> 865
ctgtcttcag ctgggtcaga ga

22

<210> 866
<211> 20
<212> DNA
<213> Homo sapiens

<400> 866
gagcaggggac tctggagcag

20

<210> 867
<211> 21
<212> DNA
<213> Homo sapiens

<400> 867
cagaaaaacgc aggtgaaatgc c

21

<210> 868
<211> 22
<212> DNA
<213> Homo sapiens

<400> 868
gcgttatagg tggagaccga gt

22

<210> 869
<211> 19
<212> DNA

<213> Homo sapiens

<400> 869

tccacctttg ggtcgttt

19

<210> 870

<211> 20

<212> DNA

<213> Homo sapiens

<400> 870

tctggtcttg ggaggtgagg

20

<210> 871

<211> 20

<212> DNA

<213> Homo sapiens

<400> 871

gcaccaggta gtcctctcg

20

<210> 872

<211> 20

<212> DNA

<213> Homo sapiens

<400> 872

ctaccccaaca gcaggttagcc

20

<210> 873

<211> 20

<212> DNA

<213> Homo sapiens

<400> 873

cctgaccaaac attgcgattg

20

<210> 874

<211> 20

<212> DNA

<213> Homo sapiens

<400> 874

ccccatgccag tgatcctacc

20

<210> 875

<211> 20

<212> DNA

<213> Homo sapiens

<400> 875

tcctcctggaa ccgtgagaag

20

<210> 876

<211> 23
<212> DNA
<213> Homo sapiens

<400> 876
gattcctctt ggaccacctt ttc

23

<210> 877
<211> 20
<212> DNA
<213> Homo sapiens

<400> 877
gctagccca tcctcactca

20

<210> 878
<211> 21
<212> DNA
<213> Homo sapiens

<400> 878
ccgaaaggct cctggaaatt a

21

<210> 879
<211> 20
<212> DNA
<213> Homo sapiens

<400> 879
gcatcatgtt gaccgagctg

20

<210> 880
<211> 27
<212> DNA
<213> Homo sapiens

<400> 880
tgtggaaagt tttccctcat atactca

27

<210> 881
<211> 21
<212> DNA
<213> Homo sapiens

<400> 881
gggagacctg cctctcagaa t

21

<210> 882
<211> 20
<212> DNA
<213> Homo sapiens

<400> 882
tgcatcggcc caattcctac

20

<210> 883
<211> 18
<212> DNA
<213> Homo sapiens

<400> 883
gccccacgtg tgaccatt 18

<210> 884
<211> 24
<212> DNA
<213> Homo sapiens

<400> 884
tcgttgtgta atcgtgtcag aaaa 24

<210> 885
<211> 20
<212> DNA
<213> Homo sapiens

<400> 885
aacaagctgt ccagcgaagc 20

<210> 886
<211> 20
<212> DNA
<213> Homo sapiens

<400> 886
cggtacccaa ttccgcctat 20

<210> 887
<211> 20
<212> DNA
<213> Homo sapiens

<400> 887
accctgtggt ggtcttggac 20

<210> 888
<211> 20
<212> DNA
<213> Homo sapiens

<400> 888
gccgtataca acggcgagac 20

<210> 889
<211> 21
<212> DNA
<213> Homo sapiens

<400> 889

aagagccagc agagcaaaac a

21

<210> 890
<211> 22
<212> DNA
<213> Homo sapiens

<400> 890
ttacgtgtgc acagagaggta

22

<210> 891
<211> 20
<212> DNA
<213> Homo sapiens

<400> 891
ggtggcacctt accgtctgtt

20

<210> 892
<211> 20
<212> DNA
<213> Homo sapiens

<400> 892
tgtgtccctt ggtgatgtgg

20

<210> 893
<211> 20
<212> DNA
<213> Homo sapiens

<400> 893
cttcgtggag gctgtggAAC

20

<210> 894
<211> 20
<212> DNA
<213> Homo sapiens

<400> 894
tgaggcctga gtccttctgg

20

<210> 895
<211> 20
<212> DNA
<213> Homo sapiens

<400> 895
atttcgcagg ccttcctctc

20

<210> 896
<211> 21
<212> DNA
<213> Homo sapiens

<400> 896		
tgtgttgca ctttgtcttc c		21
<210> 897		
<211> 20		
<212> DNA		
<213> Homo sapiens		
<400> 897		
gtcctggcaa catggagagg		20
<210> 898		
<211> 27		
<212> DNA		
<213> Homo sapiens		
<400> 898		
ccctaattgc taagatttaa ggacgtt		27
<210> 899		
<211> 25		
<212> DNA		
<213> Homo sapiens		
<400> 899		
ttgagggagt agtggaatga aaaca		25
<210> 900		
<211> 20		
<212> DNA		
<213> Homo sapiens		
<400> 900		
tgggagaact ccaatgctga		20
<210> 901		
<211> 20		
<212> DNA		
<213> Homo sapiens		
<400> 901		
gcaccagcag ggatggatta		20
<210> 902		
<211> 20		
<212> DNA		
<213> Homo sapiens		
<400> 902		
gcctggaccg atgtgtctct		20
<210> 903		
<211> 22		

<212> DNA
<213> Homo sapiens

<400> 903
cagccacacgc cttttaattt gg

22

<210> 904
<211> 20
<212> DNA
<213> Homo sapiens

<400> 904
aagacacccc catcttcctg

20

<210> 905
<211> 20
<212> DNA
<213> Homo sapiens

<400> 905
gggagacactg ctctgcaaaa

20

<210> 906
<211> 22
<212> DNA
<213> Homo sapiens

<400> 906
cccaaactga tcttccaggc ta

22

<210> 907
<211> 20
<212> DNA
<213> Homo sapiens

<400> 907
ttccccctctc atcgtcatgg

20

<210> 908
<211> 20
<212> DNA
<213> Homo sapiens

<400> 908
ccaaaggacct gggatctcct

20

<210> 909
<211> 20
<212> DNA
<213> Homo sapiens

<400> 909
gaaaaccacg gaggtggatg

20

<210> 910
<211> 20
<212> DNA
<213> Homo sapiens

<400> 910
tggaggcaga gtgacggact 20

<210> 911
<211> 20
<212> DNA
<213> Homo sapiens

<400> 911
gttaggcacgc acgaagaaca 20

<210> 912
<211> 20
<212> DNA
<213> Homo sapiens

<400> 912
cctccgcaga tgcttcattt 20

<210> 913
<211> 27
<212> DNA
<213> Homo sapiens

<400> 913
tttgtttga gtttcaaag aatagcc 27

<210> 914
<211> 22
<212> DNA
<213> Homo sapiens

<400> 914
ggtagacgac ttggctgggt ta 22

<210> 915
<211> 31
<212> DNA
<213> Homo sapiens

<400> 915
tttgtacatg actctcattt tattgttct t 31

<210> 916
<211> 20
<212> DNA
<213> Homo sapiens

<400> 916
cctgcttggg gaaatgttca 20

<210> 917
<211> 19
<212> DNA
<213> Homo sapiens

<400> 917
gtgggcttca gggttggag

19

<210> 918
<211> 20
<212> DNA
<213> Homo sapiens

<400> 918
cctggatgtc agcgaagagg

20

<210> 919
<211> 21
<212> DNA
<213> Homo sapiens

<400> 919
caagcttcac tggctctctg g

21

<210> 920
<211> 20
<212> DNA
<213> Homo sapiens

<400> 920
gcccaaaact gctccaaaga

20

<210> 921
<211> 22
<212> DNA
<213> Homo sapiens

<400> 921
gcctttccag tacaggcact tt

22

<210> 922
<211> 20
<212> DNA
<213> Homo sapiens

<400> 922
gcgcggtag gttgtctagt

20

<210> 923
<211> 26
<212> DNA
<213> Homo sapiens

<400> 923
tcaacactac acatgaatga atccaa 26

<210> 924
<211> 29
<212> DNA
<213> Homo sapiens

<400> 924
tgggaaatgt a accattttag gataatgtc 29

<210> 925
<211> 21
<212> DNA
<213> Homo sapiens

<400> 925
ccccaaagag aacagggtgg t 21

<210> 926
<211> 32
<212> DNA
<213> Homo sapiens

<400> 926
cactcagtaa agacaatttc cataaaataa aa 32

<210> 927
<211> 20
<212> DNA
<213> Homo sapiens

<400> 927
ccggcccgtaa tttaaatagca 20

<210> 928
<211> 20
<212> DNA
<213> Homo sapiens

<400> 928
cctgcagcag atgcctcttt 20

<210> 929
<211> 20
<212> DNA
<213> Homo sapiens

<400> 929
tccccctgggt tgctaattga 20

<210> 930
<211> 20
<212> DNA

<213> Homo sapiens
<400> 930
gccttcattt ccgcaggta 20

<210> 931
<211> 20
<212> DNA
<213> Homo sapiens

<400> 931
cgtctggta caaccgagtg 20

<210> 932
<211> 21
<212> DNA
<213> Homo sapiens

<400> 932
tggcaggta aggagtgttt g 21

<210> 933
<211> 20
<212> DNA
<213> Homo sapiens

<400> 933
atcgcttttgc gagacagact 20

<210> 934
<211> 20
<212> DNA
<213> Homo sapiens

<400> 934
tcctgagctc gccaataagc 20

<210> 935
<211> 20
<212> DNA
<213> Homo sapiens

<400> 935
tggcaccaaa aggcacaata 20

<210> 936
<211> 20
<212> DNA
<213> Homo sapiens

<400> 936
caagagatgc agtgccagga 20

<210> 937

<211> 20
<212> DNA
<213> Homo sapiens

<400> 937
agaggaggag gctgctggtt 20

<210> 938
<211> 20
<212> DNA
<213> Homo sapiens

<400> 938
gctcgcccac aaactgattt 20

<210> 939
<211> 25
<212> DNA
<213> Homo sapiens

<400> 939
tgatattggat acggtaata agctg 25

<210> 940
<211> 20
<212> DNA
<213> Homo sapiens

<400> 940
cggcaaagag aacggaaaga 20

<210> 941
<211> 20
<212> DNA
<213> Homo sapiens

<400> 941
gatcccagcc cacaagtgtat 20

<210> 942
<211> 27
<212> DNA
<213> Homo sapiens

<400> 942
acttgttaac ctttctaacc ttcacga 27

<210> 943
<211> 20
<212> DNA
<213> Homo sapiens

<400> 943
agtaagtca ggcgggcttt 20

<210> 944
<211> 20
<212> DNA
<213> Homo sapiens

<400> 944
tcttcaccca tcatggagca

20

<210> 945
<211> 20
<212> DNA
<213> Homo sapiens

<400> 945
cattcagcgg acagcaaaca

20

<210> 946
<211> 20
<212> DNA
<213> Homo sapiens

<400> 946
ttgtccatgg caaaacagga

20

<210> 947
<211> 20
<212> DNA
<213> Homo sapiens

<400> 947
aggtcctcct cccctttcc

20

<210> 948
<211> 20
<212> DNA
<213> Homo sapiens

<400> 948
tcacactctg caccctctag

20

<210> 949
<211> 24
<212> DNA
<213> Homo sapiens

<400> 949
caacatggc tggtaatagg cttt

24

<210> 950
<211> 20
<212> DNA
<213> Homo sapiens

<400> 950

tccactgcc tAACACACGA

20

<210> 951
<211> 21
<212> DNA
<213> Homo sapiens

<400> 951
acccatTTTA cAGTGCATG C

21

<210> 952
<211> 20
<212> DNA
<213> Homo sapiens

<400> 952
gctctttGCC TGTGGTTc

20

<210> 953
<211> 20
<212> DNA
<213> Homo sapiens

<400> 953
cgaacGAGTC ATGGCCTAGC

20

<210> 954
<211> 20
<212> DNA
<213> Homo sapiens

<400> 954
ggtaAGCACA TCCCCTCGAA

20

<210> 955
<211> 25
<212> DNA
<213> Homo sapiens

<400> 955
cccATAACCA AAATTAAAG GCAAA

25

<210> 956
<211> 21
<212> DNA
<213> Homo sapiens

<400> 956
tggcatgttt TGTGCATTG T

21

<210> 957
<211> 20
<212> DNA
<213> Homo sapiens

<400> 957
ccatggggtg agacttgaggc

20

<210> 958
<211> 20
<212> DNA
<213> Homo sapiens

<400> 958
tttctccaga agccccagcac

20

<210> 959
<211> 25
<212> DNA
<213> Homo sapiens

<400> 959
tttttttca agcagtaaaa ttcca

25

<210> 960
<211> 20
<212> DNA
<213> Homo sapiens

<400> 960
cactctgcgc cacaaagggtt

20

<210> 961
<211> 20
<212> DNA
<213> Homo sapiens

<400> 961
gaagccccctc accctgagat

20

<210> 962
<211> 20
<212> DNA
<213> Homo sapiens

<400> 962
ccgtacaagt cgggtgggta

20

<210> 963
<211> 20
<212> DNA
<213> Homo sapiens

<400> 963
gcaaagttag gaggagactg

20

<210> 964
<211> 20

<212> DNA
<213> Homo sapiens

<400> 964
cagggctatg agcgaaagaa

20

<210> 965
<211> 20
<212> DNA
<213> Homo sapiens

<400> 965
gaccggccaa aaccaaattt

20

<210> 966
<211> 20
<212> DNA
<213> Homo sapiens

<400> 966
gacgttcattt tcggcgactt

20

<210> 967
<211> 20
<212> DNA
<213> Homo sapiens

<400> 967
cttccagcag accccagtgt

20

<210> 968
<211> 20
<212> DNA
<213> Homo sapiens

<400> 968
cctctgtctgg gtttgttaccg

20

<210> 969
<211> 21
<212> DNA
<213> Homo sapiens

<400> 969
tgaatccctt gctgtccctt a

21

<210> 970
<211> 20
<212> DNA
<213> Homo sapiens

<400> 970
taccttggtt ccctgtccctg

20

<210> 971
<211> 20
<212> DNA
<213> Homo sapiens

<400> 971
taggggtaag ccctgggtgt

20

<210> 972
<211> 21
<212> DNA
<213> Homo sapiens

<400> 972
ttccatcctg tcctggaatc a

21

<210> 973
<211> 20
<212> DNA
<213> Homo sapiens

<400> 973
gggcacagct tcctctcttg

20

<210> 974
<211> 20
<212> DNA
<213> Homo sapiens

<400> 974
ccctgccaca cacacatttt

20

<210> 975
<211> 20
<212> DNA
<213> Homo sapiens

<400> 975
cccttgtgtc cccacatttt

20

<210> 976
<211> 20
<212> DNA
<213> Homo sapiens

<400> 976
ctgcagcctc acagacacctga

20

<210> 977
<211> 21
<212> DNA
<213> Homo sapiens

<400> 977
tgccattgtc ccatcttagga a

21

<210> 978
<211> 21
<212> DNA
<213> Homo sapiens

<400> 978
tcagggattt ctaagccacc a

21

<210> 979
<211> 20
<212> DNA
<213> Homo sapiens

<400> 979
agcagggaaat tccaggaagc

20

<210> 980
<211> 20
<212> DNA
<213> Homo sapiens

<400> 980
gcctcctgtat gtcgctttgc

20

<210> 981
<211> 20
<212> DNA
<213> Homo sapiens

<400> 981
gcacgggttca aaagcagggtt

20

<210> 982
<211> 20
<212> DNA
<213> Homo sapiens

<400> 982
gagccctcgcc ctctttcttc

20

<210> 983
<211> 20
<212> DNA
<213> Homo sapiens

<400> 983
ggtgtgtgtgc agagcgtatg

20

<210> 984
<211> 20
<212> DNA
<213> Homo sapiens

<400> 984
accgacgaga ccagaagtgg

20

<210> 985
<211> 27
<212> DNA
<213> Homo sapiens

<400> 985
ttctgttggaa gtatTTctt ccttacg

27

<210> 986
<211> 20
<212> DNA
<213> Homo sapiens

<400> 986
cacacttgtg ggcaatctgg

20

<210> 987
<211> 20
<212> DNA
<213> Homo sapiens

<400> 987
cccgtggagc tgacaagttt

20

<210> 988
<211> 20
<212> DNA
<213> Homo sapiens

<400> 988
agtccccccag gcattttttt

20

<210> 989
<211> 20
<212> DNA
<213> Homo sapiens

<400> 989
gcctttgctg ggcatttatgt

20

<210> 990
<211> 20
<212> DNA
<213> Homo sapiens

<400> 990
ccgagccaag acgagaagaa

20

<210> 991
<211> 20
<212> DNA

<213> Homo sapiens

<400> 991

cctgcatttg accagagcaa

20

<210> 992

<211> 25

<212> DNA

<213> Homo sapiens

<400> 992

tgcaacacta acaagagaga atgga

25

<210> 993

<211> 20

<212> DNA

<213> Homo sapiens

<400> 993

aggcccagac ttctccaagg

20

<210> 994

<211> 20

<212> DNA

<213> Homo sapiens

<400> 994

aggccaaatc agggcccttat

20

<210> 995

<211> 20

<212> DNA

<213> Homo sapiens

<400> 995

ttgccagaat gggactgtga

20

<210> 996

<211> 20

<212> DNA

<213> Homo sapiens

<400> 996

gcaagcttta gacccgcact

20

<210> 997

<211> 20

<212> DNA

<213> Homo sapiens

<400> 997

tggcttttag gatggcaagg

20

<210> 998

<211> 19
<212> DNA
<213> Homo sapiens

<400> 998
ccgataaggg cgaggtctg 19

<210> 999
<211> 22
<212> DNA
<213> Homo sapiens

<400> 999
tttcccccaa attctaagca ga 22

<210> 1000
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1000
ccagagccca ggtttctcaa 20

<210> 1001
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1001
ggcaagtgag gggatgagtg 20

<210> 1002
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1002
ggcgctctct atgtgggtgt 20

<210> 1003
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1003
gggtcattag aagccccttc a 21

<210> 1004
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1004
cccatgttcc cgaagtagga 20

<210> 1005
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1005
ggggaggtagg ataggcaaac

20

<210> 1006
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1006
tttcagccc cttgcttctg

20

<210> 1007
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1007
ggacgtcttt gggtgggatt t

21

<210> 1008
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1008
gaaggagggg tggttgttgc

20

<210> 1009
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1009
ttgacttggc ccagagggtta

20

<210> 1010
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1010
actcgaacac tgcagcatgg

20

<210> 1011
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1011

cccatggatg atgactgctg

20

<210> 1012
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1012
ggtggtttta cagtcctgc at

22

<210> 1013
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1013
tgccaaacct tgagtgtatgg

20

<210> 1014
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1014
atcgttttgg tegccactgt

20

<210> 1015
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1015
tgtgcgttgc ctgaatgaac

20

<210> 1016
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1016
ggaggaagcc atggagatca

20

<210> 1017
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1017
tctccccact tgaaggcgct

20

<210> 1018
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1018
tgc当地atgc atgccctgtta

20

<210> 1019
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1019
ccgaccgtcc ataggatacg

20

<210> 1020
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1020
ctttggaaag gtgcgagagc

20

<210> 1021
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1021
tccagggAAC tgggagttag

20

<210> 1022
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1022
tccccttctcg gaccagtgtc

20

<210> 1023
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1023
gttaggggcca tcggataagc

20

<210> 1024
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1024
accaccaaca acccacatcc

20

<210> 1025
<211> 20

<212> DNA
<213> Homo sapiens

<400> 1025
ggatccccac tggcatttct

20

<210> 1026
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1026
gaagaagccg accttccaca

20

<210> 1027
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1027
ctgttagtcac ggcccaagctc

20

<210> 1028
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1028
atagacacca ggcccacgag

20

<210> 1029
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1029
ggggaaaggac aggaacatcc

20

<210> 1030
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1030
tgtcgtcgat gctttcac

20

<210> 1031
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1031
ccctggccca caagtatcac

20

<210> 1032
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1032
gccctggctc acaagtacca

20

<210> 1033
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1033
atggcagagg gagacgacag

20

<210> 1034
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1034
gctttgtggc atctcccaag

20

<210> 1035
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1035
ttcagcggtt ctccggaaacc

20

<210> 1036
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1036
caggcatctg gattggctct

20

<210> 1037
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1037
attccgaaac caccggactt

20

<210> 1038
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1038
cgactccact cagcatcttg c

21

<210> 1039
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1039
tggatgagg atgtgtcgag 20

<210> 1040
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1040
gccataacctc taggctggct atc 23

<210> 1041
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1041
ctgcgcattc tcaagggttt 20

<210> 1042
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1042
ttccggaagt catttcacta agc 23

<210> 1043
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1043
aggattgacc gtccccctctc 20

<210> 1044
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1044
cacccctccag ttcccactgt 20

<210> 1045
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1045
tcaacagcaa caagccccgta

20

<210> 1046
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1046
agcagttcca cccctctgg

19

<210> 1047
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1047
ccggccaacc cctttaata

20

<210> 1048
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1048
tcagcgtggc tatcagttgg

20

<210> 1049
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1049
caagtgcgga gaccatctt

20

<210> 1050
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1050
acagccatca agaaaggaca ca

22

<210> 1051
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1051
ccacctgcat ccaaataatg g

21

<210> 1052
<211> 20
<212> DNA

<213> Homo sapiens

<400> 1052

tccaaagggt tgcttgaagg

20

<210> 1053

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1053

ccatggaagg gtccaatgag

20

<210> 1054

<211> 19

<212> DNA

<213> Homo sapiens

<400> 1054

gcctgctcct cttggatgg

19

<210> 1055

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1055

aaatagggga cctgcccgagt

20

<210> 1056

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1056

tgttaggcgccc aagggtggtat

20

<210> 1057

<211> 21

<212> DNA

<213> Homo sapiens

<400> 1057

gttgccacag aaggagggtt t

21

<210> 1058

<211> 22

<212> DNA

<213> Homo sapiens

<400> 1058

tccattcacc gtcaagactg aa

22

<210> 1059

<211> 22
<212> DNA
<213> Homo sapiens

<400> 1059
tattcccat tttctgccat gc 22

<210> 1060
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1060
ggtaagagg tggagggtga 20

<210> 1061
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1061
ggtgtctggc ttgggtccag 20

<210> 1062
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1062
aacaggcgac ctttcagcag 20

<210> 1063
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1063
aggcatgaag gatgccaaga 20

<210> 1064
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1064
ccaggacctc ctgccttagcc 20

<210> 1065
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1065
cacaggggag aagccatacg 20

<210> 1066
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1066
tcatgaggct gtgctggaaag

20

<210> 1067
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1067
ggtttctctg tgaattgcct gt

22

<210> 1068
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1068
ggctccaatg gtttccacaa

20

<210> 1069
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1069
ggtccatgtc ttggggatg

20

<210> 1070
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1070
gactgtggag ttgtggctgt ttta

24

<210> 1071
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1071
tcattacagc gggggcttag

20

<210> 1072
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1072

ttggccctt tcagcccttt t

21

<210> 1073
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1073
cctgcagtgg gccctagtc

19

<210> 1074
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1074
gagcacatcc cccaaatcca

20

<210> 1075
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1075
gatcagctgc ttgtgcctgt

20

<210> 1076
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1076
cagccacagt ctcccccaat

20

<210> 1077
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1077
aaccttcatg caccatccatc

20

<210> 1078
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1078
agtgcatgtt tgggacagca

20

<210> 1079
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1079
ctgttgtgct cttgggtctgc

20

<210> 1080
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1080
agttcaaccc aaatgatcat gaa

23

<210> 1081
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1081
gccccaggagc ctgaagttct

20

<210> 1082
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1082
accaaaaatga gaacctcaac agc

23

<210> 1083
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1083
aatttctgga aaagtcaaca ggataaca

27

<210> 1084
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1084
ttgatgtatgt ctctcaactct gtgcc

25

<210> 1085
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1085
ttgagtggct gggactccat

20

<210> 1086
<211> 20

<212> DNA
<213> Homo sapiens

<400> 1086
ccggccacat tcactgattt

20

<210> 1087
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1087
aagcgtcga tggctttctg

20

<210> 1088
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1088
gatggaaacc agagacaaaaa acga

24

<210> 1089
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1089
gagaattccg gAACCTGTGG

20

<210> 1090
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1090
cccaacttcc tgacggttca

20

<210> 1091
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1091
ggtgctgaaa tcaacccact c

21

<210> 1092
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1092
agaatttgatt taggaaaagtc acaaaacct

28

<210> 1093
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1093
tgcaagtgttc ctcccttcct

20

<210> 1094
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1094
gcccgagtggaa caggtttctg

20

<210> 1095
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1095
cctgatatatgt tttaagtggg aagca

25

<210> 1096
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1096
tgatcacatg aagtcacatt ggttt

25

<210> 1097
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1097
agatgatccc cgcacatga

19

<210> 1098
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1098
ctgcctggaa cctcattcat

20

<210> 1099
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1099
ccatgtattt gcaacagcag aga

23

<210> 1100
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1100
gccaaacctg caaacaaaca 20

<210> 1101
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1101
gggaccgcctt tcttacacctgt t 21

<210> 1102
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1102
cagtcattgg tgtctttgga gtg 23

<210> 1103
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1103
gatctccacc ggacagcact 20

<210> 1104
<211> 30
<212> DNA
<213> Homo sapiens

<400> 1104
cacatacat cttcagatatt tctacacctcc 30

<210> 1105
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1105
gttcattctg ccccatcago 20

<210> 1106
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1106
tccaaaggctc gatcatcttc ttga

24

<210> 1107
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1107
gctttcaaga atgaagtgggt tgg

23

<210> 1108
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1108
gtcaacaata ttggaaagca ccag

24

<210> 1109
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1109
tttaggcaaa ggggagcaca

20

<210> 1110
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1110
ccaaaggaag ccctcagaga

20

<210> 1111
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1111
gggcacaaaat gcaaagtaag c

21

<210> 1112
<211> 18
<212> DNA
<213> Homo sapiens

<400> 1112
cctgggctgt ggcttcat

18

<210> 1113
<211> 21
<212> DNA

<213> Homo sapiens
<400> 1113
caggtggatt cgtggtgcta a

21

<210> 1114
<211> 21
<212> DNA
<213> Homo sapiens
<400> 1114
gttttgggtt gttgaggagg t

21

<210> 1115
<211> 24
<212> DNA
<213> Homo sapiens
<400> 1115
ttcacagtgt gtggtaaca ttcc

24

<210> 1116
<211> 20
<212> DNA
<213> Homo sapiens
<400> 1116
ccctctcatc tagccccacca

20

<210> 1117
<211> 20
<212> DNA
<213> Homo sapiens
<400> 1117
cacagaggag gctgcagatg

20

<210> 1118
<211> 22
<212> DNA
<213> Homo sapiens
<400> 1118
tgatttgaag ccacaaattt ca

22

<210> 1119
<211> 20
<212> DNA
<213> Homo sapiens
<400> 1119
gggagactgc tcccatctca

20

<210> 1120

<211> 20
<212> DNA
<213> Homo sapiens

<400> 1120
tgacacctcaga cgtggagcag 20

<210> 1121
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1121
tgggggttggaa gctcaatctt 20

<210> 1122
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1122
ctgtttgatct gtttcttgaa ctttcct 27

<210> 1123
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1123
taaaaacccac agtgcttgac aca 23

<210> 1124
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1124
ggagcagggg tagagccact 20

<210> 1125
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1125
ggccagaatt tccttctcca c 21

<210> 1126
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1126
catttctggg caggcatga 19

<210> 1127
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1127
gagacacccc agccccctagt 20

<210> 1128
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1128
gtatgtctgc cacagctcct 20

<210> 1129
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1129
ctgttttcaa ggggccagtg 20

<210> 1130
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1130
aattaatctg gacagtttca tctgaagag 29

<210> 1131
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1131
ctctggccaa ctgcctgttt 20

<210> 1132
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1132
tccctgccag tctcgaaaag 20

<210> 1133
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1133

gcttggccca taagtgtgct

20

<210> 1134
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1134
agcccccttca atcccatcat

20

<210> 1135
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1135
tcctcaaacc cgtggatcat

20

<210> 1136
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1136
cggtgccttc ttaggagctg

20

<210> 1137
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1137
aaaaggagga caagtctaac ggaat

25

<210> 1138
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1138
tgatggttat tcgctggttc g

21

<210> 1139
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1139
tctgccagga catcttctc g

21

<210> 1140
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1140	
cacatcatgc agctccttaa tacaa	25
<210> 1141	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1141	
gctgcatcca gcctctgttt	20
<210> 1142	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1142	
aacagccaga atcgctggag	20
<210> 1143	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1143	
aggggagacc gaagtgaagg	20
<210> 1144	
<211> 17	
<212> DNA	
<213> Homo sapiens	
<400> 1144	
ctctggcccg ataccgg	17
<210> 1145	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1145	
ctgcaaacat cctcccatca	20
<210> 1146	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1146	
ggccgaagaa tccctcaaaa	20
<210> 1147	
<211> 21	

<212> DNA
<213> Homo sapiens

<400> 1147
ttggccattg accattacct g

21

<210> 1148
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1148
tttggggata atccgtgttc a

21

<210> 1149
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1149
gtgtcctggg tctggtcctc

20

<210> 1150
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1150
cttagggaaat tttggaacag aacatt

26

<210> 1151
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1151
gccgtccccct cctctctcta

20

<210> 1152
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1152
aattatttgcc ttttccccctg ga

22

<210> 1153
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1153
ccagctacaa cgcatgcaaa

20

<210> 1154
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1154
tcccggtcca ctgcttaaaa 20

<210> 1155
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1155
tcaggggttt cccagtttag 20

<210> 1156
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1156
atcatcacgg tatggcgttg 20

<210> 1157
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1157
ccccggattt gttcactgg 19

<210> 1158
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1158
agtggtcgtt gagggcaatg 20

<210> 1159
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1159
cagggccttt gcaaacaag 19

<210> 1160
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1160
ttttggaaacc cttagccctg t 21

<210> 1161
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1161
ccatctctga cccgccttc 19

<210> 1162
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1162
ggaccatggg ggaggtgaaa 20

<210> 1163
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1163
ctgactgctg cggcctctac 20

<210> 1164
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1164
gtttgcagggt ttggcataaa ttg 23

<210> 1165
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1165
actagggtgac cagatacatg agtcttattt t 31

<210> 1166
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1166
ccatggaga aatggctgg 20

<210> 1167
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1167
ttttctggag cggccatatac

20

<210> 1168
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1168
gggctgagtc ctcagacagg

20

<210> 1169
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1169
aactgaggct gccctagcaa

20

<210> 1170
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1170
ccttcctgcc ctaacagcaa

20

<210> 1171
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1171
caccggtcagt cgtgggtgt

19

<210> 1172
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1172
cctggtaggg aaaagtgtatg ga

22

<210> 1173
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1173
tggaaaacaa cacagcaaaa tcc

23

<210> 1174
<211> 21
<212> DNA

<213> Homo sapiens
<400> 1174
aaatgacctt tggtgccact g

21

<210> 1175
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1175
tggaggagag gaaaacggag a

21

<210> 1176
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1176
aatagcagca aggggaagac c

21

<210> 1177
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1177
atctaaatgg tccgcctgag c

21

<210> 1178
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1178
gcacaacttg gtaaggcacc a

21

<210> 1179
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1179
tgggaagagg aaggcacaca

20

<210> 1180
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1180
tgcacataac atatatgtc ctattgttt

29

<210> 1181

<211> 20
<212> DNA
<213> Homo sapiens

<400> 1181
caagggcac cagtcttgat

20

<210> 1182
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1182
tggctggaga taggctttgg

20

<210> 1183
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1183
tttgtcggt ccgtggtttg

20

<210> 1184
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1184
ttggcagttt cccctgactt

20

<210> 1185
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1185
agcagtcattc ctgtgctcca g

21

<210> 1186
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1186
acactgctac cctgcgtctt

20

<210> 1187
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1187
gccccagtttt gggctttctc

20

<210> 1188	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 1188	
catagccatt tctgcagcac ac	22
<210> 1189	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1189	
tcgtggaact gcttgacagc	20
<210> 1190	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1190	
aaccagaccc gtcacttcca	20
<210> 1191	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1191	
ccccacatccg catctgctat	20
<210> 1192	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1192	
gatcccccg ATAATCCTCT	20
<210> 1193	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 1193	
ccttttctgg cagggtttc	19
<210> 1194	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1194	

gcacagccga tgcttgtaac

20

<210> 1195
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1195
tggccctgaa actcctcact

20

<210> 1196
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1196
tgcaaccagt tctgggagag a

21

<210> 1197
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1197
cacccaacac cccaatctgt

20

<210> 1198
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1198
ggctccctgc ggttatcttt

20

<210> 1199
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1199
agtccattcc tgattcagaa cacc

24

<210> 1200
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1200
gtgacacctgc cagctccag

19

<210> 1201
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1201
aggggccttg aagacgatg

19

<210> 1202
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1202
agtggtcgtt gagggcaatg

20

<210> 1203
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1203
aggggagaag ctgggacaag

20

<210> 1204
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1204
cctcctcttc ctccctcgact g

21

<210> 1205
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1205
tcacatcaggaa gcttcttgct c

21

<210> 1206
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1206
agtggcagag gaggcagggtt

20

<210> 1207
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1207
actgccaaat gaaagcgaat tt

22

<210> 1208
<211> 20

<212> DNA
<213> Homo sapiens

<400> 1208
ctgggtctg gaagcagtgt

20

<210> 1209
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1209
agtgtacg cactgagctg

20

<210> 1210
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1210
ccctgttagac ggcatggaa

19

<210> 1211
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1211
catgattca ttcgtcgctcaa gg

22

<210> 1212
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1212
ggcttttcg cagctgttct

20

<210> 1213
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1213
gacagtggag cagccaacac

20

<210> 1214
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1214
cctgccaagt gttttcatca ca

22

<210> 1215
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1215
ccccttccca aggagctt

19

<210> 1216
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1216
accccacacc tctacacctag c

21

<210> 1217
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1217
gttggtaac gccagggttt

20

<210> 1218
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1218
cgcaccaaaa gttgtgcgta

20

<210> 1219
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1219
tccggcctag tagtgatgg

20

<210> 1220
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1220
ttttccccctt ttcccagtc

20

<210> 1221
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1221
catcagggcc aattggaaag

20

<210> 1222
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1222
atggggacgg taacgactca

20

<210> 1223
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1223
gtcatttctg gcacgggaag

20

<210> 1224
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1224
ggggagtgtg gtgatggagt

20

<210> 1225
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1225
agccctgggt cttcaggaac

20

<210> 1226
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1226
ctggggtagg ggagaggtgt

20

<210> 1227
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1227
gaaagggaaag caggctcaag t

21

<210> 1228
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1228
tcatgtggcg atcttgacct t

21

<210> 1229
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1229
ccatgatgag gaaggtttag c

21

<210> 1230
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1230
tttggggagt agtggaaatga aaaca

25

<210> 1231
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1231
acactcaggc ctggagaagg

20

<210> 1232
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1232
tttcgaagcc ctggagatg

20

<210> 1233
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1233
tgctgcaccc tcttcatcatcg

20

<210> 1234
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1234
ggcaagcaca acccacagat

20

<210> 1235
<211> 20
<212> DNA

<213> Homo sapiens
<400> 1235
tccttgcga tctccgggta

20

<210> 1236
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1236
gttgtcctcc tccggttct

20

<210> 1237
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1237
ggccaggagg gtagatccctt

20

<210> 1238
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1238
ccctttcaat ccagcaagca

20

<210> 1239
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1239
cagagggccccc tgtctctgaa

20

<210> 1240
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1240
tcatccata gtggggaaac

20

<210> 1241
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1241
ttaaacaccccg gaagggtgaa

20

<210> 1242

<211> 20
<212> DNA
<213> Homo sapiens

<400> 1242
gactggagcc atgagggtcgta 20

<210> 1243
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1243
gctgctgcct cgactttctc 20

<210> 1244
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1244
ccagaggaag ggtgtgctct 20

<210> 1245
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1245
ttaagcccta agtgatactg cctca 25

<210> 1246
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1246
tttaggaattt atgctgggta gtgct 25

<210> 1247
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1247
gcggccgtca ttaattcaaa 20

<210> 1248
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1248
atttgccttc agccacatcc 20

<210> 1249
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1249
ggtgttgcg cttgaactga 20

<210> 1250
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1250
atcaggtgac cgctttggaa 20

<210> 1251
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1251
gcacaggaac acggtctgaa 20

<210> 1252
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1252
aggggtgaa tgaggcaaat 20

<210> 1253
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1253
ccacagctgt cgctgtcttc 20

<210> 1254
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1254
aaatacaaaaa caaattcaca aattactctc aa 32

<210> 1255
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1255

ttggcattag actcacatca tctgt

25

<210> 1256
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1256
aaaccagaca aacgataaac acaca

25

<210> 1257
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1257
aggattatat caacagcgtt gaacttg

26

<210> 1258
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1258
ccgagccccga taaaatggta

19

<210> 1259
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1259
tccccctccct gttagagacca

20

<210> 1260
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1260
catccctctca agggcatggt

20

<210> 1261
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1261
tccccacatcc ctgacattgg t

21

<210> 1262
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1262
cacagccctg aacaaaagca

20

<210> 1263
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1263
gctatttcag gtggggctga

20

<210> 1264
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1264
aatccaggcc aaatgggtaa a

21

<210> 1265
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1265
aaaggctcca gggctcctaa

20

<210> 1266
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1266
tccatgtcca agcttccat

20

<210> 1267
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1267
atgcaaatcc agggtgcat

20

<210> 1268
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1268
caggagtcaa agggcacat

20

<210> 1269
<211> 20

<212> DNA
<213> Homo sapiens

<400> 1269
cacgcattgc acttttcctc

20

<210> 1270
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1270
acaaatctgt acccaatcgt tattgtt

27

<210> 1271
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1271
tcaacattga caaaggcagga tca

23

<210> 1272
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1272
cccacacccgt acatgcctct

20

<210> 1273
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1273
tggcactctt tccagtgact gtt

23

<210> 1274
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1274
agectccctc ccttagcgta

20

<210> 1275
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1275
atgcccaaggat aggaccctgt

20

<210> 1276
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1276
cctcacatc cctcccccatt

20

<210> 1277
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1277
ctgggcaggg cttattcatt

20

<210> 1278
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1278
aaggctgcat tctgggttg

20

<210> 1279
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1279
gccatgctac ccgttatgac

20

<210> 1280
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1280
tgatttaaaa tagggctggg aaaa

24

<210> 1281
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1281
cgatgtcatg tgatgcacga

20

<210> 1282
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1282
gcaaagaaga gcttaagcac cag

23

<210> 1283
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1283
cgtaaggcac agctgcaaaa 20

<210> 1284
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1284
gttggAACACC ctgacgaagg 20

<210> 1285
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1285
tgccTgACAG taagtgtca aaa 23

<210> 1286
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1286
aaattctttg cttgttagtg accttga 27

<210> 1287
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1287
cttggctcag tatgcaacct ttt 23

<210> 1288
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1288
acacCTGTGc ctgggagaag 20

<210> 1289
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1289
gttctcttc tggccgatgc

20

<210> 1290
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1290
tgtttctaac ccataagtgc ctca

24

<210> 1291
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1291
aaagccccaca gccaaagtca

20

<210> 1292
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1292
cacagctccg atgaccacaa

20

<210> 1293
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1293
ggtccttgta gacccgacga

20

<210> 1294
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1294
agcaggaaat gcctgtgctc

20

<210> 1295
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1295
tcagttcgta ggacccttcc

20

<210> 1296
<211> 20
<212> DNA

<213> Homo sapiens

<400> 1296

gggccttaaa actgccaagg

20

<210> 1297

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1297

gcctgagcga gaggatgttc

20

<210> 1298

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1298

gaaggcgttt aacgagatgg

20

<210> 1299

<211> 28

<212> DNA

<213> Homo sapiens

<400> 1299

tcccaatcta atttaaaccc tcataaca

28

<210> 1300

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1300

agtttcccag cccttagcaa

20

<210> 1301

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1301

ccaaaggagggt tggaaagagg

20

<210> 1302

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1302

tcatgtgcac gaggaagctc

20

<210> 1303

<211> 20
<212> DNA
<213> Homo sapiens

<400> 1303
ttgcaaagcc tttcacagga

20

<210> 1304
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1304
accagcacag aacccaaagc

20

<210> 1305
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1305
gggagcgat ctcaggcaga

20

<210> 1306
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1306
cacccataca ggacgcacag

20

<210> 1307
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1307
gaatccggc cactgatgt

20

<210> 1308
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1308
taacatttgc ttcgccatgg

20

<210> 1309
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1309
tcccaactgc aaaccctcat

20

<210> 1310
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1310
tttagctgggt gggtgcatTA

20

<210> 1311
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1311
cgctgttattc tcgcccagtGA

20

<210> 1312
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1312
caacacgcAC atctgggaAC

20

<210> 1313
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1313
aagcatttcc gcacactGG

19

<210> 1314
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1314
acgacgttcca ccttttcctG

20

<210> 1315
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1315
ttgcatgaga agcacctCCA

20

<210> 1316
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1316

tcagaaagct ttgactactg tttctcc

27

<210> 1317
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1317
atggctgccca agatggaaag

20

<210> 1318
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1318
ggcaacccta gccacacact

20

<210> 1319
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1319
cacagagaag gaggcattgc

20

<210> 1320
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1320
gccagctcca gatggacatt

20

<210> 1321
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1321
cgtgtttgc atcgtgtctg

20

<210> 1322
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1322
cgctttgggg catctaattt

20

<210> 1323
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1323
cgctcagctt tggcttcttc

20

<210> 1324
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1324
gaggtctgct tgcacccact

20

<210> 1325
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1325
cagaccctgt gtggcagtgt

20

<210> 1326
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1326
cacattgggc actgctgaaa

20

<210> 1327
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1327
tgatggggat cggggattgc a

21

<210> 1328
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1328
tcctgtaca atgcatctca tatttggaat ga

32

<210> 1329
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1329
cgccccgc gggtcgggggt

20

<210> 1330
<211> 32

<212> DNA
<213> Homo sapiens

<400> 1330
tgaactcttc aatctttgc actcaaagct tg

32

<210> 1331
<211> 35
<212> DNA
<213> Homo sapiens

<400> 1331
ccaaatcaagg tataacacac aaatgttatac tgcg

35

<210> 1332
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1332
tgccattccc gctggcttgg

20

<210> 1333
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1333
ggccgtccac cacagcatgg t

21

<210> 1334
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1334
tgccctgatt tgaaggaaaa agggatg

27

<210> 1335
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1335
ggacggcgac agaaattgca ggc

23

<210> 1336
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1336
ccctgactcc cccgtccccca

20

<210> 1337
<211> 30
<212> DNA
<213> Homo sapiens

<400> 1337
gggcgtacac tttcccttct caatctctca 30

<210> 1338
<211> 30
<212> DNA
<213> Homo sapiens

<400> 1338
tcacagcatt ggcattatct gagatggta 30

<210> 1339
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1339
aaggtttcaa cctaattggag ggatgagaag atca 34

<210> 1340
<211> 30
<212> DNA
<213> Homo sapiens

<400> 1340
gggtcctatg ctactgttgc actctccaca 30

<210> 1341
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1341
ggcagactcc ttgccAACGG gtattg 26

<210> 1342
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1342
ccaatccatg aggatggta aatgatgg 28

<210> 1343
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1343
ggccaAGAAA gcattttcac ctcctgc 27

<210> 1344
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1344
tcccaacaag cccccctgcag aa

22

<210> 1345
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1345
tgaaagccaa aggctccagt cacca

25

<210> 1346
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1346
ggttttccca tttgtggagg gcga

24

<210> 1347
<211> 28
<212> DNA
<213> Homo sapiens /

<400> 1347
ccagccttag aggaagagga ttttcgg

28

<210> 1348
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1348
gcagtgccgc acttgagat ttgg

24

<210> 1349
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1349
gtgttatacg atgaacatgc cacatgcttt ca

32

<210> 1350
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1350
cctgggccac cccagcacac

20

<210> 1351
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1351
tgcaaatggt tacttccaga taacggcca

29

<210> 1352
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1352
gcctgttcctc aaggctgctg cc

22

<210> 1353
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1353
tccactgagc cctgctgcct ca

22

<210> 1354
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1354
tgggctccct gggagtcccc

20

<210> 1355
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1355
agcccagacc caggcctgcc

20

<210> 1356
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1356
ccggcacagt gtcgtggtgg tc

22

<210> 1357
<211> 20
<212> DNA

<213> Homo sapiens
<400> 1357
gcaggccacc cagcacaccc

20

<210> 1358
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1358
tcaccctggg ggcctcctg

20

<210> 1359
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1359
ggccaaagga agtgaccctt cggt

23

<210> 1360
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1360
tctccagggc ctccgcacca

20

<210> 1361
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1361
accacatttgg agccgtgcgc

20

<210> 1362
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1362
ccaactacta aactggggga tattatgaag ggcc

34

<210> 1363
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1363
cctggactgt ttcctgataa ccataagaag accc

34

<210> 1364

<211> 25
<212> DNA
<213> Homo sapiens

<400> 1364
tgggtccagg ggttaaacaaac gagga 25

<210> 1365
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1365
tggggttgcc catgatggca 20

<210> 1366
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1366
tgtccagcga cgcctgcagc 20

<210> 1367
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1367
cagccgctcc tcaaggactg gg 22

<210> 1368
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1368
ggccctcaac caccacaacc tgc 23

<210> 1369
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1369
gccctctcac agtggaatgg agagca 26

<210> 1370
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1370
caaccaggcc aggtggggcca 20

<210> 1371
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1371
tggccgggg tgcattatct ctacagtca

29

<210> 1372
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1372
cctccggaat tcattccagt caccg

25

<210> 1373
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1373
tgttcagtc gaagttgcc agtttgcc

29

<210> 1374
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1374
cccacgcaca agggagccca

20

<210> 1375
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1375
tgtccctccc tccttcagag agtggg

26

<210> 1376
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1376
gcgattactc agggcccgcc tg

22

<210> 1377
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1377

ccccccgggc acaaggaaaga

20

<210> 1378
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1378
tcccagggtg ggcacatggg

20

<210> 1379
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1379
cagtggggca gtggggtccg

20

<210> 1380
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1380
tgaccttaact tcaggagcgt ctgtgagaca tg

32

<210> 1381
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1381
tgacccaaac atcatacccc aatatgtaca

29

<210> 1382
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1382
tttatttcctc ccaactacca ctggcgctt

29

<210> 1383
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1383
tgcttttaag ttttggccaa ctgccga

27

<210> 1384
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1384
tgggggagg t gcaacacctc gc

22

<210> 1385
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1385
gcctccccca gggggcttgt

20

<210> 1386
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1386
tggatcgaaa ttgaaatccc ttaagca

27

<210> 1387
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1387
ccattatgg gacccacc tgcttca

27

<210> 1388
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1388
atgccccatgt gcaagggcgc

20

<210> 1389
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1389
catccatttc tcttcttcag gaagatcgtg ga

32

<210> 1390
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1390
tccccaccatg gctgtggccc

20

<210> 1391
<211> 26

<212> DNA
<213> Homo sapiens

<400> 1391
ggagcttcct ttcacacaca ggccctg

26

<210> 1392
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1392
tcaggagacc tgggcccagc a

21

<210> 1393
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1393
ttcgacctga gcctgcggag aga

23

<210> 1394
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1394
ggaaacaaaa ctggcagttt gtccatttg a

31

<210> 1395
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1395
tggagggggc agcgtgtgt

20

<210> 1396
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1396
ccgagcgcgc gaatctccag

20

<210> 1397
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1397
aggtagggccg gtcctctggg

20

<210> 1398
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1398
aacacaccttac aaggcgccgag aagccca 26

<210> 1399
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1399
tgggccttcg ttgcatttgg tg 22

<210> 1400
<211> 35
<212> DNA
<213> Homo sapiens

<400> 1400
tgggtatgt ttcaggcata ttttgaatac atcga 35

<210> 1401
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1401
tcattattcc gtaattcaac acagcactac ca 32

<210> 1402
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1402
tgtacactgg ataaaagaaaa ccatgaaacg c 31

<210> 1403
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1403
ccatccctta aatcctcagg tcacaacca 29

<210> 1404
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1404
tcccttcacc ttcgctgcca ca 22

<210> 1405
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1405
aaccccatct ggtcagtgcg gc 22

<210> 1406
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1406
cgctgcctgg gtgcgactgc 20

<210> 1407
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1407
ccccaacggt gacaaacaca ctca 24

<210> 1408
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1408
tgccatggac agaagaaggc agca 24

<210> 1409
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1409
cacagccctg gcctctgctc aact 24

<210> 1410
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1410
tccatacagc actgctggag gaagagga 28

<210> 1411
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1411	caagatccca aaatccaaac tgattgactg ag	32
<210> 1412		
<211> 24		
<212> DNA		
<213> Homo sapiens		
<400> 1412	tgcactgtga caagctgcac gtgg	24
<210> 1413		
<211> 28		
<212> DNA		
<213> Homo sapiens		
<400> 1413	tccttttg ccacaagaat aaggcagca	28
<210> 1414		
<211> 26		
<212> DNA		
<213> Homo sapiens		
<400> 1414	ccaccaaaga actgtcagca gctgcc	26
<210> 1415		
<211> 34		
<212> DNA		
<213> Homo sapiens		
<400> 1415	tcctcagtca agttcagagt cttcagagac ttcg	34
<210> 1416		
<211> 26		
<212> DNA		
<213> Homo sapiens		
<400> 1416	caaaggcaat tcccacaaaa gctggc	26
<210> 1417		
<211> 24		
<212> DNA		
<213> Homo sapiens		
<400> 1417	aaaacagctg gagagtccca gccg	24
<210> 1418		
<211> 20		
<212> DNA		

<213> Homo sapiens
<400> 1418
acattgacat ggggggttt 20

<210> 1419
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1419
tccttgtat tggtggtgaa actttcttg c 31

<210> 1420
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1420
tgctgtgtaa caagtttaggg tggacttgct g 31

<210> 1421
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1421
tgagaaaaat tcaaaaagaat cgaaaggttt ca 32

<210> 1422
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1422
ccagcatttc tataccactt tgggctttgg t 31

<210> 1423
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1423
tggaaaaatgt gcaatatgtg atgtggcaa 29

<210> 1424
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1424
tgcaagggtt ctgtgacaag gaagga 26

<210> 1425

<211> 22
<212> DNA
<213> Homo sapiens

<400> 1425
cgccaaatgt agcatggca cc 22

<210> 1426
<211> 33
<212> DNA
<213> Homo sapiens

<400> 1426
tggattacct tttgtcaaag catcatctca aca 33

<210> 1427
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1427
ccctccatca tcgacactgg tctagcc 27

<210> 1428
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1428
tggcagggggt ggctgcctca t 21

<210> 1429
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1429
tcatgggtt ggctgccccg 20

<210> 1430
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1430
cccctatgg gatggtccac tgtca 25

<210> 1431
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1431
ggcaagagac tggactgaga ctttgtgaga aa 32

<210> 1432
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1432
ccgttgtgaac caaacatct cttttcaaaa ca 32

<210> 1433
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1433
catctgcagc cagtttagtgc cacctga 27

<210> 1434
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1434
gctgtatgatt tagagtgcgt tccgggtgg 28

<210> 1435
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1435
cccaaattct ttcagtggtc 20

<210> 1436
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1436
caaggcacca cacaacccag aaagga 26

<210> 1437
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1437
cactcgccat ttaaaatgtc ctgtcaaaac a 31

<210> 1438
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1438

gggattcccc taacctcatt ccccaa

26

<210> 1439
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1439
tgtgtcgagg taccctgtatg aaaacatagc a

31

<210> 1440
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1440
gcccttggcc tgaagtccca gc

22

<210> 1441
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1441
caaggcctcat tcccaacctg cacct

25

<210> 1442
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1442
tgctggggct ccccatttgc

20

<210> 1443
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1443
caaggcatgg cgttagagggt gctg

24

<210> 1444
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1444
acaaccccccct cctcgcccc

20

<210> 1445
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1445
cagggtaac tccagaaagg attgatatct gtga

34

<210> 1446
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1446
tgccttacaa gaaagacata aaatgtccaa ggga

34

<210> 1447
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1447
ccactgggt tcaggccccca

20

<210> 1448
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1448
ctggcctcgc gctgctgctt

20

<210> 1449
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1449
ctcaaacctg aaatcagaag agggccatg

29

<210> 1450
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1450
gcagccctc gtgctgcaca

20

<210> 1451
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1451
tcccgtggta tactattca gacgtgca

28

<210> 1452
<211> 29

<212> DNA
<213> Homo sapiens

<400> 1452
tcctgtacct gctcccaatc tgtgttctt

29

<210> 1453
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1453
acgaaggatc cacagatccc tcaaaaaca

28

<210> 1454
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1454
ccccggatgaa cggcgctctt

20

<210> 1455
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1455
ccgggttcgag gacgtggagg at

22

<210> 1456
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1456
tcgtgtatggc ctggccctgc

20

<210> 1457
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1457
gcctggaaac aaaaaaaaaa

20

<210> 1458
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1458
tcaggtggtc aatggccagc acc

23

<210> 1459
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1459
tggcttggat ttggggttac agccca

25

<210> 1460
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1460
gaaaatgcac aaactgtcaa aattcatcat cgtg

34

<210> 1461
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1461
tcctgggtgg gtgcagcctc a

21

<210> 1462
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1462
gggactgcag ttgtggctgc ca

22

<210> 1463
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1463
tcctggcata cggaggcagag ctgga

25

<210> 1464
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1464
ggggggcctgt tggctttcc ttttc

25

<210> 1465
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1465
ggcagtgtca taggcagtat cctgcacag

29

<210> 1466
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1466
gaggggaccc tctggcccga 20

<210> 1467
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1467
tggaggata tcaggtcatc attgtgtatc aaaa 34

<210> 1468
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1468
tgtgtctgcg atggtcgtct cttaactgg 28

<210> 1469
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1469
gggttctcgt tgcaatcctc ggtca 25

<210> 1470
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1470
gccccatccaca tctcccgctt atccctc 26

<210> 1471
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1471
tcaccacctgc ttggcccca 20

<210> 1472
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1472
tggaaagccac ccgattcttg tatcg

26

<210> 1473
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1473
gaggggaccc tctggccga

20

<210> 1474
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1474
cccttgacca acccggccc

19

<210> 1475
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1475
gacggaagag aaattcactg gcgcct

26

<210> 1476
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1476
tcaaattctt ggccatcctg aaagggc

27

<210> 1477
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1477
cccaatctaa aggagttct gccaaagga

29

<210> 1478
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1478
ccccatccgc tgccaggtca

20

<210> 1479
<211> 33
<212> DNA

<213> Homo sapiens
<400> 1479
cagtggccaa ttttcatacc ctaagaagaa tga 33

<210> 1480
<211> 21
<212> DNA
<213> Homo sapiens
<400> 1480
cattggggag cagagggcc a 21

<210> 1481
<211> 26
<212> DNA
<213> Homo sapiens
<400> 1481
ccacgttgca aaatctgcaa atccca 26

<210> 1482
<211> 28
<212> DNA
<213> Homo sapiens
<400> 1482
gggttttgc tgacgtgcat tcctctga 28

<210> 1483
<211> 27
<212> DNA
<213> Homo sapiens
<400> 1483
tggaaattgtc caagttagca ccacagg 27

<210> 1484
<211> 23
<212> DNA
<213> Homo sapiens
<400> 1484
agggggtggtg atctggctga ggg 23

<210> 1485
<211> 33
<212> DNA
<213> Homo sapiens
<400> 1485
ccaaagtcca tttaactcgag acagaaaatga gtc 33

<210> 1486

<211> 30
<212> DNA
<213> Homo sapiens

<400> 1486
gcgttccttct tctttttgtc gtccttaggc 30

<210> 1487
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1487
tgggtgtcgc tggtaagtc agagga 26

<210> 1488
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1488
ccggctgctt taatgagggc attga 25

<210> 1489
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1489
caaaggatgt gagggggaaaa aggggg 26

<210> 1490
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1490
cctcccagcc caaagccccca 20

<210> 1491
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1491
catgggggtg tggaggtggg ag 22

<210> 1492
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1492
gccttgtcat tggcacaca acaacc 26

<210> 1493
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1493
ggaaaaaccag gctctccagg aatggg

26

<210> 1494
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1494
tcacgtgagg tagaggacag ttttctgtgt ca

32

<210> 1495
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1495
ccccacccccc ttaatcagac tttaaaagtgc

31

<210> 1496
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1496
cgcgcttgcc ccgcgaacta

20

<210> 1497
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1497
gccctctcca gactgggtggg ca

22

<210> 1498
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1498
tctggagggc caggtgggggg

20

<210> 1499
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1499

ccccagcaaa tgccaggggc

20

<210> 1500

<211> 28

<212> DNA

<213> Homo sapiens

<400> 1500

ggccgttaat ttaatggggc caactttg

28

<210> 1501

<211> 28

<212> DNA

<213> Homo sapiens

<400> 1501

gcagccccatg gcattttctt ttttacca

28

<210> 1502

<211> 23

<212> DNA

<213> Homo sapiens

<400> 1502

tggtgccctt gggatcgact ggg

23

<210> 1503

<211> 33

<212> DNA

<213> Homo sapiens

<400> 1503

gctcatcaga gtaggagagt tgttagcaaag gca

33

<210> 1504

<211> 33

<212> DNA

<213> Homo sapiens

<400> 1504

aactcatcgat gatgtatggaa acaagaatga tga

33

<210> 1505

<211> 21

<212> DNA

<213> Homo sapiens

<400> 1505

tgccccagcc cttcccagag a

21

<210> 1506

<211> 26

<212> DNA

<213> Homo sapiens

<400> 1506	
gggattgaac ctttgcctatg agttcc	26
<210> 1507	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 1507	
gtctggagag aaggccttgc tccca	25
<210> 1508	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 1508	
ggggatgctg gagggccttc a	21
<210> 1509	
<211> 34	
<212> DNA	
<213> Homo sapiens	
<400> 1509	
cagaaggcca tggagggtac ctacttattc ttca	34
<210> 1510	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1510	
ctgccccagtg cacagccccca	20
<210> 1511	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 1511	
ccagagctgg acctgggacc tgc	23
<210> 1512	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1512	
tcggggatggg tggacgtggg	20
<210> 1513	
<211> 20	

<212> DNA
<213> Homo sapiens

<400> 1513
gttccccagg tcccgccagc

20

<210> 1514
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1514
tgtattgttt ggtgcttaac ttgaagtggg a

31

<210> 1515
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1515
actggctgga acgtcggcgc

20

<210> 1516
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1516
cgtggggtgt gttggagtgt ggtg

24

<210> 1517
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1517
ttgaccagaa acccagggca ggg

23

<210> 1518
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1518
aatggagtgg gtcgggcgc

20

<210> 1519
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1519
acagctgaaa cccgcggggc

20

<210> 1520
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1520
tggccctcca acttttcttt gcgta

24

<210> 1521
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1521
aaaccgatata ctttcgcgtt ctgacgga

28

<210> 1522
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1522
catgcactgg acactggccc tga

23

<210> 1523
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1523
gaaggcgtca aggccgcgtg

20

<210> 1524
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1524
tcaagcaaat gaggctggag ctgga

25

<210> 1525
<211> 35
<212> DNA
<213> Homo sapiens

<400> 1525
ccactgtatt tcatttctgt gatgagttct gacca

35

<210> 1526
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1526
gcctcagggtg gagcagtgtg gtagaca

27

<210> 1527
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1527
tccggacagg cggctgtctc a 21

<210> 1528
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1528
ccatctctgt gccgtgcccc a 21

<210> 1529
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1529
tgctttgatg acacccacccg caa 23

<210> 1530
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1530
ttttcgttt aaagtagtct tccgtggttg ggaa 34

<210> 1531
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1531
tggaggagtg ggtgtcgctg ttga 24

<210> 1532
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1532
caactgctcag cggtgagggt gg 22

<210> 1533
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1533
cacccggagct tgtggccagc a

21

<210> 1534
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1534
tcgcgtttgc tgggactttc aaagcc

26

<210> 1535
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1535
tgcgacgtt gagctctgtg gc

22

<210> 1536
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1536
gatgcttagag aactggaagg ataaacttggg gg

32

<210> 1537
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1537
tgccatcttc ctccctccgg cc

22

<210> 1538
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1538
gccctgttgt ggctggctgc a

21

<210> 1539
<211> 33
<212> DNA
<213> Homo sapiens

<400> 1539
ccctttatca gggagtaatt gtggtagacg tcg

33

<210> 1540
<211> 23
<212> DNA

<213> Homo sapiens

<400> 1540

tcaaccggtc agagccagag ccc

23

<210> 1541

<211> 32

<212> DNA

<213> Homo sapiens

<400> 1541

ttcagcatgt tcacttgaag atccatcaga tg

32

<210> 1542

<211> 28

<212> DNA

<213> Homo sapiens

<400> 1542

ccgtggat tttatagcat cctggca

28

<210> 1543

<211> 28

<212> DNA

<213> Homo sapiens

<400> 1543

cccaaggcta atcctagcca ttcctgc

28

<210> 1544

<211> 32

<212> DNA

<213> Homo sapiens

<400> 1544

caagtggatg ggaagtaaag ccctatgtgt ca

32

<210> 1545

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1545

ctcaggcacc tgcgtccccg

20

<210> 1546

<211> 25

<212> DNA

<213> Homo sapiens

<400> 1546

tcacgacgtt gtaaaaacgac ggcca

25

<210> 1547

<211> 29
<212> DNA
<213> Homo sapiens

<400> 1547
tctaccgtca tggagcttct gttccaca

29

<210> 1548
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1548
tcgccccaggat agtgtggccat ca

22

<210> 1549
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1549
ggaagtcttc ttgggttatcc tggctttgga aa

32

<210> 1550
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1550
ccacaaggcct gaaaatgcaa tgtcctg

27

<210> 1551
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1551
tcctgtgcca aatcatctgc agcaa

25

<210> 1552
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1552
tcaggatcaa tgactgaaat ttggccatg

29

<210> 1553
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1553
ccagcaggggg aactctggac aggcc

24

<210> 1554
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1554
ggaggggaag gaggcaatgt ggg

23

<210> 1555
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1555
gcctctcgga ggagtcaaag gggc

24

<210> 1556
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1556
cccagcacct ggggaattct aagcc

25

<210> 1557
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1557
gcttgatttg tggaccagtg tccccca

26

<210> 1558
<211> 33
<212> DNA
<213> Homo sapiens

<400> 1558
ccccctaaaa tcccactgt aacaaacatt tcg

33

<210> 1559
<211> 36
<212> DNA
<213> Homo sapiens

<400> 1559
gacaaatgtt ttacatgtg gaatgtcaca tcaacc

36

<210> 1560
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1560

caccccccaccc ccagccccatt

20

<210> 1561
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1561
tggaaatgaga ggtggcccggt ggg

23

<210> 1562
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1562
gccccatccgc tcatggatgt cc

22

<210> 1563
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1563
gaggatcacaca tttgaatgac aacaggggct c

31

<210> 1564
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1564
ccacgatggc cctgctggtc a

21

<210> 1565
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1565
cctccgcggc ctctttgttt gaa

23

<210> 1566
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1566
tgcttacact ggcctgattt gtgggg

25

<210> 1567
<211> 36
<212> DNA
<213> Homo sapiens

<400> 1567
tcaggctctg atacctgctt taaaaatgga gctaga 36

<210> 1568
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1568
tctaccccca ccccgacccg 20

<210> 1569
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1569
ccccacccca aattcttggc c 21

<210> 1570
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1570
ccagcgcccg cttagccact 20

<210> 1571
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1571
gcgcatatgc ggctgtgcca 20

<210> 1572
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1572
cgtnccaggac acagccaggg c 21

<210> 1573
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1573
cagtttgtcat tgtacagcac aagaatgaac aatg 34

<210> 1574
<211> 31

<212> DNA
<213> Homo sapiens

<400> 1574
gagcagagac caaccccttc aaagttggta a

31

<210> 1575
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1575
gcgttgatgt ttttgtctta ctccccagg

28

<210> 1576
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1576
caggaggaggac aaactctggg ctggaa

25

<210> 1577
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1577
caccccggttgc gtcccaagccc

20

<210> 1578
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1578
tggctgtgtgc tgccctccgtg

20

<210> 1579
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1579
ggccagggttc tctggaaagag aacttttca

29

<210> 1580
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1580
ccgtcgctgt ccacaggggc

20

<210> 1581
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1581
cccgacaaca aaatgcctca agtgagg 27

<210> 1582
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1582
ggcccttgg a cggcatggct 20

<210> 1583
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1583
cctgcagcca gcactggtag acga 24

<210> 1584
<211> 30
<212> DNA
<213> Homo sapiens

<400> 1584
tgcaaatgtc tttgcttgc tgtaactca 30

<210> 1585
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1585
tcagattca catgtatggc tctgtctac tgct 34

<210> 1586
<211> 35
<212> DNA
<213> Homo sapiens

<400> 1586
ccagagcatt ttccattaaa ccaattctt gatca 35

<210> 1587
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1587
aacgtaatca tacctctagt catagca 27

<210> 1588
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1588
cagtcactg tgaaggcttg agcctca

27

<210> 1589
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1589
cccttcccc gacctgggg

20

<210> 1590
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1590
ggatttctcc agcgcgttag atctga

26

<210> 1591
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1591
tggcttttgtt gccatgactg cct

23

<210> 1592
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1592
tgggcacatc gtgaggggcc

20

<210> 1593
<211> 33
<212> DNA
<213> Homo sapiens

<400> 1593
ctgtgaatca acagagcatg ctaccacttc agt

33

<210> 1594
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1594
tgagaaagtg aaattggggc ttgtggaga

29

<210> 1595
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1595
gtgggattgg ctcagtttg cccca

24

<210> 1596
<211> 30
<212> DNA
<213> Homo sapiens

<400> 1596
gagctgagat gctgtgcaac tgtttaaggg

30

<210> 1597
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1597
gtggggtcag caccatggc tgg

23

<210> 1598
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1598
gcctcggtgg ggtgacacgc

20

<210> 1599
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1599
aacttgtttt accccctctc ctcaacatct tgtc

34

<210> 1600
<211> 35
<212> DNA
<213> Homo sapiens

<400> 1600
tggaaccttct ttgtgattcc ttttcaatct cactc

35

<210> 1601
<211> 30
<212> DNA

<213> Homo sapiens

<400> 1601

gccttttct ttggaaatgc aactctgctg

30

<210> 1602

<211> 27

<212> DNA

<213> Homo sapiens

<400> 1602

tggacaaaacg gtcttgacca aatgacg

27

<210> 1603

<211> 27

<212> DNA

<213> Homo sapiens

<400> 1603

ccagggtcac ctagcctgct ttttgcc

27

<210> 1604

<211> 23

<212> DNA

<213> Homo sapiens

<400> 1604

ttcccaggct gcctctccctc acc

23

<210> 1605

<211> 23

<212> DNA

<213> Homo sapiens

<400> 1605

tcttggggccc agtctcacac tgg

23

<210> 1606

<211> 28

<212> DNA

<213> Homo sapiens

<400> 1606

agtttctttg cacatgtaaa gcaggcca

28

<210> 1607

<211> 22

<212> DNA

<213> Homo sapiens

<400> 1607

tgggagcaga ggttcagccc ca

22

<210> 1608

<211> 27
<212> DNA
<213> Homo sapiens

<400> 1608
tgaggacaga ctgtggacac cccatct 27

<210> 1609
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1609
ctgtaagccc ccttttggat gccaaa 26

<210> 1610
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1610
ttcccccttgt gctgaatgtg gaca 24

<210> 1611
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1611
tcatacaaca caaacatgca gtttctttct ctga 34

<210> 1612
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1612
ttgattgcaa atggaggtagc agtttctgcc t 31

<210> 1613
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1613
cgcaacaaca agcgcacgca 20

<210> 1614
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1614
tccaggaaga atttcatgtt tagagctgct gc 32

<210> 1615
<211> 33
<212> DNA
<213> Homo sapiens

<400> 1615
cgatagttgg gcatctgtat ttccacttgt gtg 33

<210> 1616
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1616
agagggaaaa acctattcta cccaaacacag ca 32

<210> 1617
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1617
tgggcacatt ggggaagccc ct 22

<210> 1618
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1618
aagcgcttga ctatgtggcc cg 23

<210> 1619
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1619
tcagaaaaga aaagctcttt agacttagcaa tg 32

<210> 1620
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1620
tcacaaacctc ggagagaaga tggacccc 27

<210> 1621
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1621

aggccagcaa caatgccac ga

22

<210> 1622
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1622
tgggttgcca ctgcacgct

19

<210> 1623
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1623
cgaagctgga gctggagct cg

22

<210> 1624
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1624
accggctgc gcaggtctga

20

<210> 1625
<211> 33
<212> DNA
<213> Homo sapiens

<400> 1625
ggatttttaa gggatccct atttatggcc aaa

33

<210> 1626
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1626
ccaggaccccg atcgcgatcg

20

<210> 1627
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1627
aggctctgct cgttccctct cccc

24

<210> 1628
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1628
tgcgggcgca agcttatgtc c 21

<210> 1629
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1629
tttgctggct tatgtatgtt aaggcacca 29

<210> 1630
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1630
cgggggcctg aggccagtg 19

<210> 1631
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1631
cctctttgct gttttcacc tactacgtca caca 34

<210> 1632
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1632
agaggctgaa gtcctcgac ttccaactc 29

<210> 1633
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1633
tgctctcaa cacctttgtt tagtagggaa aacc 34

<210> 1634
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1634
ggaaaagctc aagaaggctg ggagatga 28

<210> 1635
<211> 23

<212> DNA
<213> Homo sapiens

<400> 1635
ggatggacgc ggacggaatt ctg

23

<210> 1636
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1636
aggaccaagg cccagccagc a

21

<210> 1637
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1637
tcctcctcac ttccctacct cacaacaaga a

31

<210> 1638
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1638
tgacaacaga gacaaaaaac aaccaccca

29

<210> 1639
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1639
tgccgagagg aattgttaagg ttgccca

26

<210> 1640
<211> 30
<212> DNA
<213> Homo sapiens

<400> 1640
cagaacctca cagacccaaa ggaacatcaa

30

<210> 1641
<211> 33
<212> DNA
<213> Homo sapiens

<400> 1641
tggagttgaa aaacagatca agtcagggac atc

33

<210> 1642
<211> 34
<212> DNA
<213> Homo sapiens

<400> 1642
tgtccagaat ctagttgtg cagaaatgtt tcca

34

<210> 1643
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1643
cacagcctcg gtagcagcgg ga

22

<210> 1644
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1644
gttggccttt agggctgtgc cca

23

<210> 1645
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1645
ccagccccaca atttcaaata atgcaggaa

29

<210> 1646
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1646
aatgcacttc atgaaaagtt gtggctccc

29

<210> 1647
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1647
gcgccaaaga gtatcaggaa agcaagga

28

<210> 1648
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1648
tgcccaattca ttggcaccta agacctg

27

<210> 1649
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1649
ccctgtggc atccctggca 20

<210> 1650
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1650
cgccgcccgtt gtgctgctc 19

<210> 1651
<211> 35
<212> DNA
<213> Homo sapiens

<400> 1651
gcagggaaag ggggttagtt attcattttt cagct 35

<210> 1652
<211> 35
<212> DNA
<213> Homo sapiens

<400> 1652
caactgctcc acttcttttt gtttggaaac tctga 35

<210> 1653
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1653
ggcagctggg agatgtggg aaaaggct 28

<210> 1654
<211> 35
<212> DNA
<213> Homo sapiens

<400> 1654
ccaaagagca aagctacaca aagaaaattc ctcag 35

<210> 1655
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1655
cacacaggca tgtgtgtctg catgg

25

<210> 1656
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1656
aagtgcagcg ttccttttgc

20

<210> 1657
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1657
ccgggggtgac aaggcagatac

20

<210> 1658
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1658
aaggaaggcct cttccacgtt

20

<210> 1659
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1659
cagaagcaag gggctgaaaa

20

<210> 1660
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1660
caaccacccc ctcccttctt

20

<210> 1661
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1661
tcagggaaatg aagggtgtcag aa

22

<210> 1662
<211> 22
<212> DNA

<213> Homo sapiens
<400> 1662
tggctgagg ctggtaaaag aa

22

<210> 1663
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1663
tctgtccatc atttcaccat cc

22

<210> 1664
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1664
ctcggtgggt gttcaaggag

20

<210> 1665
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1665
tgctcctttt ggtgactgga

20

<210> 1666
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1666
ggcctgggta gaggctggtt

20

<210> 1667
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1667
ctgtctctgc ctccccctcacc

20

<210> 1668
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1668
ggagaagcgg cgataccata

20

<210> 1669

<211> 20
<212> DNA
<213> Homo sapiens

<400> 1669
gtccccacctg ggagaatgtg 20

<210> 1670
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1670
tcactcccaag ttccctggac 20

<210> 1671
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1671
atccgcacaca acctgagttct 20

<210> 1672
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1672
gtgtcctccc tcccctatgc 20

<210> 1673
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1673
ctgggccgtg actacaggac 20

<210> 1674
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1674
tcgtgcaatg gagattctgg 20

<210> 1675
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1675
ctaagccact gcctgctgg 20

<210> 1676
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1676
atgtggccca agatctccac 20

<210> 1677
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1677
gcccttcata atatccccca gt 22

<210> 1678
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1678
ggcatttgtt tcccaagttc a 21

<210> 1679
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1679
cgtcctccctc tgccatcct 19

<210> 1680
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1680
ggaaaggctc ctggttgtct 20

<210> 1681
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1681
acagaggccc tggaaaggac 20

<210> 1682
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1682

tacctgacct ttgtgccctc a

21

<210> 1683
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1683
aagtccggtg gtttcggaat

20

<210> 1684
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1684
ggaatggaga gcacggtctg

20

<210> 1685
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1685
tttgcacagg tggccctga

20

<210> 1686
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1686
tttgaatgac caagttctct tcattg

26

<210> 1687
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1687
caccttgtcc tttgctggac

20

<210> 1688
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1688
ctcccttgtg cgtgggtaag

20

<210> 1689
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1689
cttctccctc tgcccccttc

20

<210> 1690
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1690
gggagaggga catcctacgg

20

<210> 1691
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1691
ccagcctgga ggtgatcaag

20

<210> 1692
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1692
aagatgggtc tccgcacttg

20

<210> 1693
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1693
gccagtggtta gttgggagga

20

<210> 1694
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1694
gccaataaaag aaattaacac ccaaaa

26

<210> 1695
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1695
acccttccat ggtgtgatcg

20

<210> 1696
<211> 20

<212> DNA
<213> Homo sapiens

<400> 1696
acacctcacagg gaccctccac

20

<210> 1697
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1697
ctggacaagg ttacatcttc ctca

24

<210> 1698
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1698
atccgtgacg acatgctgtg

20

<210> 1699
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1699
gatgccacct tcagcctctg

20

<210> 1700
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1700
ccacacctggaa tcagggattg

20

<210> 1701
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1701
tcatcttggaa gggaccaagg

20

<210> 1702
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1702
ggacatttgc cttgctggaa

19

<210> 1703
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1703
gggcccagca gttcttatgac

20

<210> 1704
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1704
cctgccttgc gacaggatga

20

<210> 1705
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1705
ggcaactgggt gaacggtaac a

21

<210> 1706
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1706
cccaaggct a agcaggaggt

20

<210> 1707
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1707
gggtccccaaa caactcagga

20

<210> 1708
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1708
cccaagtctag gctggagaga

20

<210> 1709
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1709
aacaaattcaa gtgctgggt tt

22

<210> 1710
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1710
cggtggctac cagacattga 20

<210> 1711
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1711
cagcagtttc aatgcaccaa a 21

<210> 1712
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1712
gacaacttcc gcatttgctt ttattt 26

<210> 1713
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1713
gcttaatgg catgtcagac agaac 25

<210> 1714
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1714
agtcccagca ttgatgacag c 21

<210> 1715
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1715
cctgttgcc atcctcttgg 20

<210> 1716
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1716
caccggctaa tggtgtggtaa

20

<210> 1717
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1717
gtcgcccaagt cctaccagag

20

<210> 1718
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1718
atcccgtag acttgcgcctc ctttt

25

<210> 1719
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1719
gacgaccatc gcagacacag

20

<210> 1720
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1720
ctggagacc cgctgtttc

19

<210> 1721
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1721
tgggctaact atgcagagca tgta

24

<210> 1722
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1722
cgacaatgag cggggagata

20

<210> 1723
<211> 20
<212> DNA

<213> Homo sapiens

<400> 1723

accactgctg ctgctgttgc

20

<210> 1724

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1724

ccctgaaggt gaaccgctta

20

<210> 1725

<211> 25

<212> DNA

<213> Homo sapiens

<400> 1725

gtcaaacaga ttaaggttcg agtgg

25

<210> 1726

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1726

gcctgaggct gtgaagatgg

20

<210> 1727

<211> 21

<212> DNA

<213> Homo sapiens

<400> 1727

aggaggcata ggccatttca g

21

<210> 1728

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1728

gaggaccaga cccaggacac

20

<210> 1729

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1729

gcttgtgcat gaccctgtatg

20

<210> 1730

<211> 19
<212> DNA
<213> Homo sapiens

<400> 1730
caggagaacg tggccctct 19

<210> 1731
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1731
tgcctgtcct tctgtgtgct 20

<210> 1732
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1732
gaggaatgca cgtcagtcaa aa 22

<210> 1733
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1733
gcaaggctga cgagagctg 19

<210> 1734
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1734
ccatccggga tatcctagcc 20

<210> 1735
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1735
ccctgtctct ccccaccttt 20

<210> 1736
<211> 18
<212> DNA
<213> Homo sapiens

<400> 1736
gacgaggctg cggtgtct 18

<210> 1737
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1737
gggaaaactgt ggcgtatcg

19

<210> 1738
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1738
cagccggtgt aaatgtttag c

21

<210> 1739
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1739
ttaaaaattcc gggccttgg

19

<210> 1740
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1740
gtgcattccgt ggtcaaaagt c

21

<210> 1741
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1741
tcctgtccat gtgcctggt

19

<210> 1742
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1742
gcagcagtca gcgatgttc

20

<210> 1743
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1743

ccaaacctgc aaacaaacag g

21

<210> 1744
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1744
tgccaatgat gtacagttt atggtt

26

<210> 1745
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1745
agccatttct ccaatggaca tc

22

<210> 1746
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1746
attcatgtcc agtggcttcc a

21

<210> 1747
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1747
actccctgcc caccagtct

19

<210> 1748
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1748
aaggagctgc ccgatgtat

20

<210> 1749
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1749
gccatactcc ctgcctcctt

20

<210> 1750
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1750	
ttgacaccac cctctttgga a	21
<210> 1751	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 1751	22
ctccaaacct gaaatcaaag ca	
<210> 1752	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 1752	21
gaaatcaaag cacggtgcat a	
<210> 1753	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1753	20
ccccgatgct cagaagtgtc	
<210> 1754	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 1754	21
ggggacaacg aaaacaagag g	
<210> 1755	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1755	20
ccgcttatgat cctcgcttg	
<210> 1756	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 1756	22
ggagaagatc ctttggatgc ag	
<210> 1757	
<211> 20	

<212> DNA
<213> Homo sapiens

<400> 1757
caagccaaaa tgggagcaag

20

<210> 1758
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1758
ctggccgtca tggagactg

19

<210> 1759
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1759
agtccctgcaa ctgcctcctg

20

<210> 1760
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1760
tggcctcagg gaaaagactg

20

<210> 1761
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1761
tccctggtag acggggtagg

20

<210> 1762
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1762
gcggaaaagt cagggaaac

20

<210> 1763
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1763
tccaggatca aaacattcct ca

22

<210> 1764
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1764
cagacgcaga gcatggatga 20

<210> 1765
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1765
cccgtaagecg ctaattccag 20

<210> 1766
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1766
catgtgaaa caagattaac acagg 25

<210> 1767
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1767
ttgcgcctaa tcatgtcg 20

<210> 1768
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1768
gaagcacagg tccgtgtcg 19

<210> 1769
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1769
gcagaaaaacc gttgcattga 20

<210> 1770
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1770
cgccagtggtt tccgtcagta 20

<210> 1771
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1771
atacaaataa tcttacacac aaatgaaaat gc 32

<210> 1772
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1772
ccgtctcgta gataggcagc a 21

<210> 1773
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1773
gctccagcct catttgcttg 20

<210> 1774
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1774
ttttaattgg ggtgatccaa agc 23

<210> 1775
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1775
aaggcctcagg tggagcagtg 20

<210> 1776
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1776
gcctgtccgg agactgaaga 20

<210> 1777
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1777
cggcacagag atggagctg

19

<210> 1778
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1778
tccacacccatgg ggtcgcttt

19

<210> 1779
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1779
tcccacccaa ccccaagact

19

<210> 1780
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1780
gcctcaacg accactttgt

20

<210> 1781
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1781
accgctgagc agtgaccccttc

20

<210> 1782
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1782
cacaaggctcc ggtggatctc

20

<210> 1783
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1783
accccaagcccc cttagacagag

20

<210> 1784
<211> 20
<212> DNA

<213> Homo sapiens

<400> 1784
aacctgcctc ctctgccact

20

<210> 1785
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1785
gtgaaagggt actggatacc aacc

24

<210> 1786
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1786
cgaatggcct ctagccacac

20

<210> 1787
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1787
cacaacaggg ctgcaacaaa

20

<210> 1788
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1788
gacgtctggt tcaaagagtt gga

23

<210> 1789
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1789
tggctctgac cggttgatg

19

<210> 1790
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1790
gcgaccacca gcagctcta

19

<210> 1791

<211> 19
<212> DNA
<213> Homo sapiens

<400> 1791
tgtgaaatgc ccaggatgc 19

<210> 1792
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1792
gcccttgaca gggtatttct ga 22

<210> 1793
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1793
cgtgtcagaa aacaaagcat actga 25

<210> 1794
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1794
ggggagctct ccctgacct 19

<210> 1795
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1795
acaattcaact gcccgtcgtt 20

<210> 1796
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1796
ggagaatgca gaggccaaaa 20

<210> 1797
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1797
cgagatgatc ggccactacc 20

<210> 1798
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1798
aaggcagggga ctggggaaaag

20

<210> 1799
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1799
ttgcattttc aggcttgtgg

20

<210> 1800
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1800
ctccgcctaag agggcctttc

20

<210> 1801
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1801
gcggggacac cccttaatag

20

<210> 1802
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1802
taagcaacag ccccaaatgc

20

<210> 1803
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1803
ggggagtggg tttggatagg

20

<210> 1804
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1804

gcctcctcaa acggttcctt

20

<210> 1805
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1805
cttttattaa tatattgtgt gtgcacccgg t

31

<210> 1806
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1806
tccacaaaatc aagctcccaa g

21

<210> 1807
<211> 32
<212> DNA
<213> Homo sapiens

<400> 1807
aggacgttct ttattatgaa actttatcac at

32

<210> 1808
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1808
ttaaatgtca aaatgaaagg ggaca

25

<210> 1809
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1809
ccttctccag gcctgagtgt t

21

<210> 1810
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1810
gaggcctctg atgaccagac a

21

<210> 1811
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1811	
gctccctgtt gggtgtcata	20
<210> 1812	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 1812	
gtgggttgta cttgccaga	19
<210> 1813	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1813	
tacccggaga tcgacaagga	20
<210> 1814	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1814	
cggaatggtg aaaccaaagc	20
<210> 1815	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1815	
acatacccttc ctggcccttg	20
<210> 1816	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1816	
acctgaccgt gcgaatcaat	20
<210> 1817	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 1817	
ctcttgcccc gagcctagtt	20
<210> 1818	
<211> 20	

<212> DNA
<213> Homo sapiens

<400> 1818
ccccactatg ggatgacgag

20

<210> 1819
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1819
cagagcttctt ttggggtctg g

21

<210> 1820
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1820
caccatctcc tgcgtctcg

19

<210> 1821
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1821
ttggcacaccc agtgttctcc

20

<210> 1822
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1822
gcccatgttt cattttgtgc

21

<210> 1823
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1823
ccaagacaag aaattgtttt gagaaaa

26

<210> 1824
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1824
tttgtacatg actctcattt tattgtttct t

31

<210> 1825
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1825
ccctcggtct gggcaataa

19

<210> 1826
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1826
ccgggtgaga tccacaagtc

20

<210> 1827
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1827
gagccgcaga tgcaaggttct

20

<210> 1828
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1828
gggctcctaa ataccaagct tca

23

<210> 1829
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1829
tcagcacctc agtcgtccac

20

<210> 1830
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1830
cacttgaggc attttgttgt cg

22

<210> 1831
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1831
agccctggtg gcctattacc

20

<210> 1832
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1832
tgttttagta cattctttca acactacaca t

31

<210> 1833
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1833
ttttaagtgg aaatgttaacc attttagga

29

<210> 1834
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1834
tagcctcccc aagagagaac ag

22

<210> 1835
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1835
ccgcggtaaa tttaatagca t

21

<210> 1836
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1836
agggagcttg aagagggaat g

21

<210> 1837
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1837
aaaatgttcg cctggctgat

20

<210> 1838
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1838
tccccaccaat gtcaggaatg

20

<210> 1839
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1839
gtctcgagag ttccccctgtc c

21

<210> 1840
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1840
tttgccgtac atcgtctcggt

20

<210> 1841
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1841
ttggggccaaat aaggattcca

20

<210> 1842
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1842
gcagatgagc gtccccacttt

20

<210> 1843
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1843
aatggaaaggc ttggacatgg

20

<210> 1844
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1844
aaaagtgtcc attgaaaaccg tga

23

<210> 1845
<211> 20
<212> DNA

<213> Homo sapiens

<400> 1845

tgccttggag aggatggaag

20

<210> 1846

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1846

tgccaggcctt aaggagagga

20

<210> 1847

<211> 28

<212> DNA

<213> Homo sapiens

<400> 1847

ctaatgtatat tgattttggat acgggtcaa

28

<210> 1848

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1848

ccccccttagat cccaaatttca

20

5

<210> 1849

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1849

gctgtgggat ctcagtggtgc

20

<210> 1850

<211> 27

<212> DNA

<213> Homo sapiens

<400> 1850

acttgttaac ctttctaacc ttcacga

27

<210> 1851

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1851

ggaagatgag caggccagtg

20

<210> 1852

<211> 20
<212> DNA
<213> Homo sapiens

<400> 1852
tgtgcctctg ccatcttac

20

<210> 1853
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1853
ttgaagctct tggcattcag c

21

<210> 1854
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1854
gcagccaaga agatgtgaaa gag

23

<210> 1855
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1855
ggatgtgc aacccagaat

20

<210> 1856
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1856
cccggtggact gcttcattc

20

<210> 1857
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1857
ccatgttagt atctaaatgc ttgttca

27

<210> 1858
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1858
ttgagaaaatg gcccccaactg

20

<210> 1859
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1859
gggaacatga ttggctcgct g

21

<210> 1860
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1860
gcctcttcca cttggctcgc

20

<210> 1861
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1861
cccttcttca gcgaacgagt

20

<210> 1862
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1862
ttcacacag gagatctcag acaga

25

<210> 1863
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1863
taacccaaaat ttaaaggcaa attcaca

27

<210> 1864
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1864
caaggccaaag tggcatgttt t

21

<210> 1865
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1865

tcgtgtctc caacctgtct t

21

<210> 1866
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1866
cctcgatgaca tggacacacc

20

<210> 1867
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1867
tttttcaag cagtaaaatt cca

23

<210> 1868
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1868
gtggccttc ttgggtcctc

20

<210> 1869
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1869
gcctggctgt ccttagcgtt

20

<210> 1870
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1870
gtacaagccg tccgacacg

19

<210> 1871
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1871
gaccgaggac tcaacccaaa

20

<210> 1872
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1872
gcggaagaac atcgacctca

20

<210> 1873
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1873
tggcagttt aaggcccaa c

21

<210> 1874
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1874
acaagaccgg caccctcac

19

<210> 1875
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1875
aagaatgggg agagggAACG

20

<210> 1876
<211> 35
<212> DNA
<213> Homo sapiens

<400> 1876
ggagaaaact ttattctta tagttcaaa tacca

35

<210> 1877
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1877
ggctggaaag ctctacccaa a

21

<210> 1878
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1878
ggagctcagc acctttcca

20

<210> 1879
<211> 20

<212> DNA
<213> Homo sapiens

<400> 1879
cacccagctc ctttcctgtg

20

<210> 1880
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1880
ccctggggcc ctatbtcata

20

<210> 1881
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1881
ctccaggttag cccacggata

20

<210> 1882
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1882
ctggcatctg caccacaact

20

<210> 1883
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1883
tcctccaggt gtggctgagt

20

<210> 1884
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1884
cgggattcac actcagaacc a

21

<210> 1885
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1885
aagccatgcc gaagcaaat

19

<210> 1886
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1886
catgagatgt gtgggtggtt g 21

<210> 1887
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1887
ctctggtgcc ctcactctgc 20

<210> 1888
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1888
tgttccttgc ggtctgtgag g 21

<210> 1889
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1889
ctggggcaat ggtacaggc 20

<210> 1890
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1890
acaatcaacc aacaatggaa acc 23

<210> 1891
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1891
gggctcctac caggaaaagg 20

<210> 1892
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1892
atgggcaagt gtcgtggact 20

<210> 1893
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1893
ttttttccct tacgtcaata cttttcct 28

<210> 1894
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1894
catgaaaacc cagtaagact ttcca 25

<210> 1895
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1895
gaagtccctgg gcatgcacatct 20

<210> 1896
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1896
gtgggcctgt gaagtttca a 21

<210> 1897
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1897
agcccttgac ctttgagtcc 20

<210> 1898
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1898
ggggacacag cagaagaacg 20

<210> 1899
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1899
atccccaacc gcacccat

20

<210> 1900
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1900
tggggcacca tttcagtgt

20

<210> 1901
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1901
cctttgcagg ctgtttctgt c

21

<210> 1902
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1902
gggtgtgtct gctcagtaat ttga

24

<210> 1903
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1903
agccatcgga agagaacagc

20

<210> 1904
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1904
gaagggacac gcagggtggta

20

<210> 1905
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1905
tgacttttaa ttccccaaatc aagg

24

<210> 1906
<211> 21
<212> DNA

<213> Homo sapiens
<400> 1906
ccgtctgtgc atccatattc c

21

<210> 1907
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1907
atgatccccca cgatccatgt

20

<210> 1908
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1908
gcacacctggag aaccattca

20

<210> 1909
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1909
tttcccttcgt ttgcttcctg

20

<210> 1910
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1910
tccttgccaa cgggtattgt

20

<210> 1911
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1911
gccaaaccat tcattgtcac c

21

<210> 1912
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1912
tgtggctttt ggaatgtgga

20

<210> 1913

<211> 20
<212> DNA
<213> Homo sapiens

<400> 1913
ggagggtgaa tcccttgctc 20

<210> 1914
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1914
aggctgtctg gtcagactg t 21

<210> 1915
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1915
ccacagaaga ggcagctgg 20

<210> 1916
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1916
gagagcagcg tatcctgaag cta 23

<210> 1917
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1917
ggggatccat gagtctcagc 20

<210> 1918
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1918
gtgagggtctg gggtgcttgt 20

<210> 1919
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1919
cttgcggAAC tccagctcat 20

<210> 1920
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1920
attggaatgg ccctctcctc

20

<210> 1921
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1921
tcgcagcatt gaaacactt

20

<210> 1922
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1922
cacgagggtc tccgcattta

20

<210> 1923
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1923
gtgctcacag aagccaggaa c

21

<210> 1924
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1924
cgaagtgcgg gaagtaggtc

20

<210> 1925
<211> 18
<212> DNA
<213> Homo sapiens

<400> 1925
ggtgttggt gtggctaa

18

<210> 1926
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1926

agaagggttgtt ggctgggtgtg

20

<210> 1927

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1927

gggcattgagg ttgtccatgt

20

<210> 1928

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1928

gtgcatttgac tttggggttg

20

<210> 1929

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1929

tgggctctga cttgtgagga

20

<210> 1930

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1930

cgttgtctca ggcatctgga

20

<210> 1931

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1931

tggggagtca tttccagcat

20

<210> 1932

<211> 18

<212> DNA

<213> Homo sapiens

<400> 1932

ggccccaaagg aagagcag

18

<210> 1933

<211> 19

<212> DNA

<213> Homo sapiens

<400> 1933
ggcacagctt ggacaacca

19

<210> 1934
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1934
atatggtccg gggtgcatta

20

<210> 1935
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1935
cctgttgaat gcctccagg

20

<210> 1936
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1936
tgctgctgtg tttccctctc t

21

<210> 1937
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1937
tacacgtggg ttgcgtcagt

20

<210> 1938
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1938
cacttctgcc ctccccaacac

20

<210> 1939
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1939
gcttgcgagg ccaagcaaat

20

<210> 1940
<211> 20

<212> DNA
<213> Homo sapiens

<400> 1940
gccccctgatt caacaaggcat

20

<210> 1941
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1941
tcataacaatc actgaagaca cacaca

26

<210> 1942
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1942
ggcataatcc aaagggttgc t

21

<210> 1943
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1943
cagctggaaa agggtgttagc a

21

<210> 1944
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1944
aggtacaggg ccagcaggat

20

<210> 1945
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1945
gattttggatc gggatttggaa

20

<210> 1946
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1946
gtgccattca ccttgcacac

20

<210> 1947
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1947
aatgttgctc agccccacag

20

<210> 1948
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1948
tgtggaattt gcaaacatcc att

23

<210> 1949
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1949
ccatgcctgt atcagggtca

20

<210> 1950
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1950
gggtgacagt ggagcttcct t

21

<210> 1951
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1951
cccacattca cagggtctt

20

<210> 1952
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1952
tcaactgctg cttcaccaga ct

22

<210> 1953
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1953
ttcaaagctg ttggccctct

20

<210> 1954
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1954
tgacgccccctt attctctccct c

21

<210> 1955
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1955
agggcacttc cagctttcc

20

<210> 1956
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1956
ggacttcttc acggccacag

20

<210> 1957
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1957
tgcgttcagc agactggttt

20

<210> 1958
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1958
agaatggcccg ccagtgttac

20

<210> 1959
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1959
ctggcattgc aaaactggaa

20

<210> 1960
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1960
tcaccaccaa tcacaaggaa ga

22

<210> 1961
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1961
gcaccaggca taaaaatctcc

20

<210> 1962
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1962
gggaggccat acggtttagg

20

<210> 1963
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1963
gatctcctgg ggttcctgtct

20

<210> 1964
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1964
cagagatgtg gcggtctcaa

20

<210> 1965
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1965
ccctgaaggt gaaccgctta

20

<210> 1966
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1966
aacggaaagt ccgaatccta ca

22

<210> 1967
<211> 24
<212> DNA

<213> Homo sapiens
<400> 1967
tcatgagatt ctgctgtacg tgtg 24

<210> 1968
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1968
catctttctc ggggttctcg 20

<210> 1969
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1969
cagagcatgt atgagaacta cattgtacc 29

<210> 1970
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1970
ctctcagaag ccccaactgga 20

<210> 1971
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1971
gcacacctcagc tgttcccagt 20

<210> 1972
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1972
gtcgccccagt cctaccagag 20

<210> 1973
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1973
taagatatatct aaggcattct gcaaacatc 29

<210> 1974

<211> 21
<212> DNA
<213> Homo sapiens

<400> 1974
agacaggat tccttggcaa c 21

<210> 1975
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1975
tccgtttca aggcttcata a 21

<210> 1976
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1976
ctgcacatgg caggtgtatc tc 22

<210> 1977
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1977
tttagcttaa cttagcttagg gaattttg 28

<210> 1978
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1978
aggccgttga gctggcac 20

<210> 1979
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1979
gaaaaatctg caaatccccag aa 22

<210> 1980
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1980
ggccgactga agggtaaaat g 21

<210> 1981
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1981
acttggcac tgcctcattc

20

<210> 1982
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1982
ggcatgcaca cacacaacag t

21

<210> 1983
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1983
caagccccaa gttgtctcat tt

22

<210> 1984
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1984
tccttgatct tcctggccga ct

22

<210> 1985
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1985
cagctcaggg atgacacctgc

20

<210> 1986
<211> 18
<212> DNA
<213> Homo sapiens

<400> 1986
gtccacccgc ccctacat

18

<210> 1987
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1987

aaaggggcaa ttttgggtgg

20

<210> 1988
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1988
accatgcagg tggaagcag

19

<210> 1989
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1989
ggtgtggagg tgggagtca

20

<210> 1990
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1990
tgtgctgtga atggcacaac t

21

<210> 1991
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1991
ttgctgggtt tattcattctg agg

23

<210> 1992
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1992
atttatttca cgtgaggtag agcacag

27

<210> 1993
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1993
caggataatc agaccaccac agg

23

<210> 1994
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1994
ccccgcgaac tagatttgaa

20

<210> 1995
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1995
tctctgcagg aggtgaagca

20

<210> 1996
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1996
gccagattgg catgaaggac

20

<210> 1997
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1997
aaggacagca gtgcctccag

20

<210> 1998
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1998
ttggtagtt gtcggcgttg c

21

<210> 1999
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1999
tgtcagctga acattgtcca taaac

25

<210> 2000
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2000
cagtattttg gccaaacttct gctt

24

<210> 2001
<211> 22

<212> DNA
<213> Homo sapiens

<400> 2001
taaaggtacg cacttgggct tc

22

<210> 2002
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2002
aaaccaccaac gacgatgaaa c

21

<210> 2003
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2003
agctcatatt cctgggcatac c

21

<210> 2004
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2004
gccttagatcg aagggattga

20

<210> 2005
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2005
acaacattct gctcaacatc atttaca

27

<210> 2006
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2006
ggccagatgc agccactgtat

20

<210> 2007
<211> 18
<212> DNA
<213> Homo sapiens

<400> 2007
catgacgccc caaccatt

18

<210> 2008
<211> 19
<212> DNA
<213> Homo sapiens .

<400> 2008
ctggacacctgg gacctgcat 19

<210> 2009
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2009
gcgaggggat gggtttattt 20

<210> 2010
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2010
ggaggaggag ttgcctggtc 20

<210> 2011
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2011
agtgttgc ttggtgctta acttg 25

<210> 2012
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2012
accctgatgc tggcatggt a 21

<210> 2013
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2013
cggggtttga ggcataatttc 20

<210> 2014
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2014
agaagggaa ggaggggtct 20

<210> 2015
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2015
cttctaaac acctgcccac a 21

<210> 2016
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2016
caaaggcccc tcagaacga 19

<210> 2017
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2017
gaagctctgg ccctccaact 20

<210> 2018
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2018
cattgatgtat atgccccgga ta 22

<210> 2019
<211> 18
<212> DNA
<213> Homo sapiens

<400> 2019
ctggcagggc ttccttca 18

<210> 2020
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2020
ctgccccctga tgcaaaaagtt 20

<210> 2021
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2021
ttcaaggcca cagctatgtt tg

22

<210> 2022
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2022
tgaccaggct gaagacagga

20

<210> 2023
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2023
tccccacaaca agccacagag

20

<210> 2024
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2024
cagcacgtgc acagcagac

19

<210> 2025
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2025
tgaatttctg actgcagatg ttttg

25

<210> 2026
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2026
agctccagca gccttcttgt c

21

<210> 2027
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2027
gagtgggttg gggactgg

19

<210> 2028
<211> 22
<212> DNA

<213> Homo sapiens
<400> 2028
cttactcctt ggaggccatg tg 22

<210> 2029
<211> 21
<212> DNA
<213> Homo sapiens
<400> 2029
caacatggaa gatgggcaga a 21

<210> 2030
<211> 21
<212> DNA
<213> Homo sapiens
<400> 2030
ggtcgtcata gtttgttgc t 21

<210> 2031
<211> 20
<212> DNA
<213> Homo sapiens
<400> 2031
cgctttgtc gggactttca 20

<210> 2032
<211> 20
<212> DNA
<213> Homo sapiens
<400> 2032
cccttgacaca aaacccactc 20

<210> 2033
<211> 22
<212> DNA
<213> Homo sapiens
<400> 2033
tttggagaaa agtgggtcca ag 22

<210> 2034
<211> 20
<212> DNA
<213> Homo sapiens
<400> 2034
catccttgggt gggtccttagc 20

<210> 2035

<211> 21
<212> DNA
<213> Homo sapiens

<400> 2035
ggcagtgcct ttgatcagtg t 21

<210> 2036
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2036
ctgccacgcc catctttatc 20

<210> 2037
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2037
acagtatcta tcctaggcaa atgagagc 28

<210> 2038
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2038
tcttcccctc gcacgtctta 20

<210> 2039
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2039
tcctccctgta ggctggcaga 20

<210> 2040
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2040
tcctctctca acctgccact c 21

<210> 2041
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2041
catgtccccct tcccaagga 19

<210> 2042
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2042
agctccca cagc tgaccc tctg a 20

<210> 2043
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2043
gaatgt gctc caaggc gatt a 21

<210> 2044
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2044
cccccccttc tcagccaa ag 20

<210> 2045
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2045
cagaggatg aagctggaca a 21

<210> 2046
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2046
tttcaa aaca ggcagaggga at 22

<210> 2047
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2047
tcccactgaa agtc acatgc ca 22

<210> 2048
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2048

tgcatcaagt gtgcaacaga

20

<210> 2049
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2049
tcgtttcgt tcccccttttgc

20

<210> 2050
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2050
gagctctggc tgatggaaacc

20

<210> 2051
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2051
ggaaggaggc aatgtgggta

20

<210> 2052
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2052
gctttgcctc tcggaggagt

20

<210> 2053
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2053
ggaagacaga gaaaaaggaa gc

22

<210> 2054
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2054
ggcagaaatt cagggaccaa

20

<210> 2055
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2055
atgtagaatt ttcttactcc atgatgagg

29

<210> 2056
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2056
tgttttcatt ccactactcc ctcaa

25

<210> 2057
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2057
tggctgcact aaacatccac a

21

<210> 2058
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2058
gcccggtgggt gtaatccat

19

<210> 2059
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2059
accaggagac agcgctacca

20

<210> 2060
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2060
tcccactaac atgaaatgaa tgga

24

<210> 2061
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2061
agtttgggga ggccatatcc

20

<210> 2062
<211> 20

<212> DNA
<213> Homo sapiens

<400> 2062
cagatgctca cctgctcgtc

20

<210> 2063
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2063
tggggatcca ctttcttcaa a

21

<210> 2064
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2064
ttctggctga ggggtcacat

20

<210> 2065
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2065
gtccttggag ccaaggcagag

20

<210> 2066
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2066
accagtggaa ccagggtag

20

<210> 2067
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2067
aggagggagg ggcacagtag

20

<210> 2068
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2068
gtgccatagc cgcatgttct

20

<210> 2069
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2069
gactccttgg catcgacac 20

<210> 2070
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2070
tcatgttttc ctcattatta ttgatcc 27

<210> 2071
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2071
ttgctgtttg ggtgcatact g 21

<210> 2072
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2072
tttgaatcaa tattagaaat tgatgctg 28

<210> 2073
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2073
acaacggta ccatctgcaa 20

<210> 2074
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2074
accagattca aaaggaaag ca 22

<210> 2075
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2075
ctcatgaaac gtccccgaat 20

<210> 2076
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2076
aggccagggt ctcttggaga 20

<210> 2077
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2077
acagcagcca aacaaaagca 20

<210> 2078
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2078
ctgaaagctc aggggtggaa 20

<210> 2079
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2079
cagcagggtc cggtcataact 20

<210> 2080
<211> 32
<212> DNA
<213> Homo sapiens

<400> 2080
acaaaacaaa ttcacaaatt actctcaata ct 32

<210> 2081
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2081
tctgtaaaaa tctttctgca aatgtc 26

<210> 2082
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2082
agtaaaaacca gacaaacgaa taacacac

28

<210> 2083
<211> 18
<212> DNA
<213> Homo sapiens

<400> 2083
ccgagccccga taaaatggt

18

<210> 2084
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2084
tccccctccct gtagagacca

20

<210> 2085
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2085
cccgacacctgg ggttatctctt

20

<210> 2086
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2086
cttgaaggga cgtgggacat

20

<210> 2087
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2087
tttggtgccca tgactgccta

20

<210> 2088
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2088
ttcgcgtcttc gctgaagaag att

23

<210> 2089
<211> 22
<212> DNA

<213> Homo sapiens

<400> 2089

aagagtgtgg cctgagtcct ct

22

<210> 2090

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2090

ttaggggttg tggagaagag

20

<210> 2091

<211> 22

<212> DNA

<213> Homo sapiens

<400> 2091

aagaccctca ttccccactt ca

22

<210> 2092

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2092

cccccacttct tgcattcagc

20

<210> 2093

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2093

actccaagga cacggcagag

20

<210> 2094

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2094

cggcggtgaga aatcagttt g

20

<210> 2095

<211> 28

<212> DNA

<213> Homo sapiens

<400> 2095

accatcactt acaaaatctgt acccaatc

28

<210> 2096

<211> 27
<212> DNA
<213> Homo sapiens

<400> 2096
tgagtaagg ttttttccgttct

27

<210> 2097
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2097
gatccccagct gccttttggaa

20

<210> 2098
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2098
tgtgattata caaaatgaag tggacaaa

28

<210> 2099
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2099
ccctctccaa cacccttcacg

20

<210> 2100
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2100
aggcctggtc cttcactggt

20

<210> 2101
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2101
cagtctcaca ctggcccttg ct

22

<210> 2102
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2102
caatggcatt aaggggc当地

20

<210> 2103
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2103
tccacgatca tctcgtctgg

20

<210> 2104
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2104
ctgaggggtg cagagtgtga

20

<210> 2105
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2105
cagtcattgt cataggcaaa cttga

25

<210> 2106
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2106
tccagagcaa gccgaaactt

20

<210> 2107
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2107
ttcacaaatgg ctaacaagaa cagg

24

<210> 2108
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2108
ccaaaggcagg ccaggcaatac

20

<210> 2109
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2109

gacgaagggc taccgcact

19

<210> 2110
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2110
gctatttcga gggatgtgc t

21

<210> 2111
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2111
aaattctttg cttgttagtg accttga

27

<210> 2112
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2112
tgcaaccttt taagcatagc cata

24

<210> 2113
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2113
gaagccccctg ttctgctcaa

20

<210> 2114
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2114
tttgtccct tggagggttg

20

<210> 2115
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2115
ctaaccata agtgcctcat aca

23

<210> 2116
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2116
cagggcatgt gtagcaggaa

20

<210> 2117
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2117
gcctgagagt agctccctcc tt

22

<210> 2118
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2118
gacttgtacg ggttcggtt t

21

<210> 2119
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2119
ggagctggga gctcgaaagt

20

<210> 2120
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2120
gcgtgcagct catcttgta

20

<210> 2121
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2121
ttttgcacaa tgggttcctt t

21

<210> 2122
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2122
atcgaagtgc ccgacaatg

19

<210> 2123
<211> 20

<212> DNA
<213> Homo sapiens

<400> 2123
gatcaccacg aaggaggtgc

20

<210> 2124
<211> 35
<212> DNA
<213> Homo sapiens

<400> 2124
ttaataattc ataccttagta ctaagcgta acaac

35

<210> 2125
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2125
cctgctttct tctttcattg atcc

24

<210> 2126
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2126
cctgaggcca gtgatagggt aa

22

<210> 2127
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2127
gcactgctgc tcatttcctg

20

<210> 2128
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2128
tccttccccct ttgccaaatct

20

<210> 2129
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2129
accggagaaa agtgggttga g

21

<210> 2130
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2130
aagctcaaga aggctgggag a

21

<210> 2131
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2131
cacccactgt tcttaccctt gc

22

<210> 2132
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2132
tcctgcctaa ctgaccacct g

21

<210> 2133
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2133
cagactccaa gtccaaagca aat

23

<210> 2134
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2134
tgatttccaa atctcagttg acctc

25

<210> 2135
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2135
gcttcctgga attccctgt

20

<210> 2136
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2136
tgaagggtcc cacgctgtat

20

<210> 2137
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2137
tgccatcgtc aaggcatgg a 21

<210> 2138
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2138
cgagggctcg tcattttgt 19

<210> 2139
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2139
ctgagagcga ccacacctaccg 20

<210> 2140
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2140
gctgtgccca aatgagcttt 20

<210> 2141
<211> 31
<212> DNA
<213> Homo sapiens

<400> 2141
gtatctcaat tcagaaaagct ttgactactg t 31

<210> 2142
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2142
tttgatcccc agtgtttgct c 21

<210> 2143
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2143
attccaagtc agcgccaaag

20

<210> 2144
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2144
atgccacttc attggcacct

20

<210> 2145
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2145
tgcttgaagg caaaccagat

20

<210> 2146
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2146
tcccagaaga gatgacggag gctacacctc

29

<210> 2147
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2147
cgctgtgtgt tctccccctct

20

<210> 2148
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2148
tggAACAGTT tctcccccaat g

21

<210> 2149
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2149
tcaATTGGAC agaaATGACA AGGA

24

<210> 2150
<211> 21
<212> DNA

<213> Homo sapiens
<400> 2150
tctggctcac tccaaatcag c

21

<210> 2151
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2151
gcctgacttg gcctgctact

20

<210> 2152
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2152
tcacacagcc atcacacagg

20

<210> 2153
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2153
tgccaatgaa accaggtatac ccca

24

<210> 2154
<211> 33
<212> DNA
<213> Homo sapiens

<400> 2154
tgagtggctg gtgttttg gtttagtgtaa cca

33

<210> 2155
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2155
ggccagcaca atgccccagg

20

<210> 2156
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2156
tcaggcaaat tcacaaccca gtgagtcgt

29

<210> 2157

<211> 25
<212> DNA
<213> Homo sapiens

<400> 2157
tgacagccac aatgctcacc gttca

25

<210> 2158
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2158
cagctcccaa ccctttgtgt ctca

26

<210> 2159
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2159
ggatgatgac tgctgttacg aaacacacca

30

<210> 2160
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2160
tgcagagcag ttttttttcca gctgtga

27

<210> 2161
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2161
ggcagaaaaat cgtcttggtc gcc

24

<210> 2162
<211> 32
<212> DNA
<213> Homo sapiens

<400> 2162
ccaaaaactac aaggctttga aggaccaaag ga

32

<210> 2163
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2163
gggtgcagag caaggaaggg gc

22

<210> 2164
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2164
tcaggaaggtaaagcaatctctggaggca 30

<210> 2165
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2165
cttccccagc cagccacccg 20

<210> 2166
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2166
tttgtgggtt agggtaggga agttcaca 28

<210> 2167
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2167
ccacgggtcca cacagccccc 20

<210> 2168
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2168
cttccccctcg gggcaggctg 20

<210> 2169
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2169
tgggtggcttatccaccat cttttca 28

<210> 2170
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2170

ccccctcgaa aacaccctcg ca

22

<210> 2171
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2171
gaactcggcg gggaggtggg

20

<210> 2172
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2172
ggtgcgcatg gtgtcggcct

20

<210> 2173
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2173
tgccctggcc cacaagtatac actaagc

27

<210> 2174
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2174
tgccctggct cacaagtacc attgaga

27

<210> 2175
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2175
gccccatggggcc ttgacaccttgg g

21

<210> 2176
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2176
cccatgatgg cagaggcaga gga

23

<210> 2177
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2177
gccggggctc aggtccaggt

20

<210> 2178
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2178
gcagggtgga gcactggggc

20

<210> 2179
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2179
tggtgactgg accttccaga tcctgg

26

<210> 2180
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2180
gatgctgagt ggagtcgggg gct

23

<210> 2181
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2181
ggccaggtgg gccaccatga

20

<210> 2182
<211> 35
<212> DNA
<213> Homo sapiens

<400> 2182
cagtcataatc ttcaaataga ggccgatttc cttgg

35

<210> 2183
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2183
ttccatcaga atgtcttggc cttccccca

28

<210> 2184
<211> 20

<212> DNA
<213> Homo sapiens

<400> 2184
ccgtccccctc tccccggagga

20

<210> 2185
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2185
acttcgaaac cggcccgccc

20

<210> 2186
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2186
caaccccaagc cctgccctcc

20

<210> 2187
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2187
cagtggggca gtggggtccg

20

<210> 2188
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2188
ggcgccccagg tgaagagcca

20

<210> 2189
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2189
tgcaatcaaa aaccacacctgc atccaa

26

<210> 2190
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2190
tgcttttaag ttttggccaa ctgccga

27

<210> 2191
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2191
tccccagtcag ggagccccacg g 21

<210> 2192
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2192
aggcccagga tggcggcaac 20

<210> 2193
<211> 34
<212> DNA
<213> Homo sapiens

<400> 2193
tgataactgc tcttgaagga ctcacaaaaga tggc 34

<210> 2194
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2194
ccctctggct gttcccgca 20

<210> 2195
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2195
ggtaaggct tggaggagtg gcg 23

<210> 2196
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2196
cgtggagttt ctccagtc aa ggtccca 27

<210> 2197
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2197
tccccaccatg gctgtggccc 20

<210> 2198
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2198
tccctccac atccccagtc cc 22

<210> 2199
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2199
ggacccaaac cagacacactg gcc 23

<210> 2200
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2200
cctttgaaaa caagagtaaa cgcatcgcc 30

<210> 2201
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2201
ctgattgccc agaactggta tttccttgc 30

<210> 2202
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2202
ggccattct tgccactctc cctg 24

<210> 2203
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2203
agggggacgt ggcgggacc 19

<210> 2204
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2204
gggggagaaac cccagggcct

20

<210> 2205
<211> 34
<212> DNA
<213> Homo sapiens

<400> 2205
gggggtgata agaaaagaaa taaaaattca ctgc

34

<210> 2206
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2206
tcatgggcc tcggcagtca

20

<210> 2207
<211> 31
<212> DNA
<213> Homo sapiens

<400> 2207
tgtgacatct ccatccagtg atatttgatgc a

31

<210> 2208
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2208
tgggttaggg gatgcggggg

20

<210> 2209
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2209
tgaatgtgtc aggtgaccct gatgaaaaca

30

<210> 2210
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2210
gcctcatctt caacttttgt gtccccctt

29

<210> 2211
<211> 26
<212> DNA

<213> Homo sapiens
<400> 2211
tggttggctt ctggccacc ttttg 26

<210> 2212
<211> 20
<212> DNA
<213> Homo sapiens
<400> 2212
aatgcagctg gggccagggg 20

<210> 2213
<211> 23
<212> DNA
<213> Homo sapiens
<400> 2213
cggaactcgtc tgggttcttg gcc 23

<210> 2214
<211> 21
<212> DNA
<213> Homo sapiens
<400> 2214
tggtcatggc ggtgggtggc a 21

<210> 2215
<211> 35
<212> DNA
<213> Homo sapiens
<400> 2215
tggttattcg ctggttcggtt ctaagatgag tatcg 35

<210> 2216
<211> 28
<212> DNA
<213> Homo sapiens
<400> 2216
gttttgaggg attcttcggc caactctg 28

<210> 2217
<211> 26
<212> DNA
<213> Homo sapiens
<400> 2217
gccccatccaca tctcccgctt atcctc 26

<210> 2218

<211> 20
<212> DNA
<213> Homo sapiens

<400> 2218
ccggccccag ggtcctgatc 20

<210> 2219
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2219
ggtgtttctc ccccggttg g 21

<210> 2220
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2220
cggaactcgtc tgggttcttg gcc 23

<210> 2221
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2221
tgctgcggca tagaatcaag gagca 25

<210> 2222
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2222
tggtcaggga gatatctctc cacacttgca 30

<210> 2223
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2223
cccaatctaa aggagttct gccaaagga 29

<210> 2224
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2224
ccatccccctg caggcctggc 21

<210> 2225
<211> 33
<212> DNA
<213> Homo sapiens

<400> 2225
gaacagaaca ttcagtggcc aattttcata ccc 33

<210> 2226
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2226
cgtccggaag gcattggcca 20

<210> 2227
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2227
caacctccag gggcaggag ga 22

<210> 2228
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2228
aacccagcta caacggatgc aaaggg 26

<210> 2229
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2229
tggctacgct cccagcagcc c 21

<210> 2230
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2230
gaaaacttca gggtcagcta gctggggc 28

<210> 2231
<211> 32
<212> DNA
<213> Homo sapiens

<400> 2231

ccttgctcca tcttgacaaa tcactttct gc

32

<210> 2232

<211> 27

<212> DNA

<213> Homo sapiens

<400> 2232

gcattgcgaa gtcggagaa tagcagc

27

<210> 2233

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2233

gttctggaga gccccgcggc

20

<210> 2234

<211> 23

<212> DNA

<213> Homo sapiens

<400> 2234

ccagggcctt tgcaaacaag cca

23

<210> 2235

<211> 28

<212> DNA

<213> Homo sapiens

<400> 2235

tttcaaggcag gggtttcctt ggcttttt

28

<210> 2236

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2236

ggcctcccca tcccagcctg

20

<210> 2237

<211> 23

<212> DNA

<213> Homo sapiens

<400> 2237

tgacggccag gatgtatgagc agg

23

<210> 2238

<211> 24

<212> DNA

<213> Homo sapiens

<400> 2238
tccagcctgg gaagtacaca ggcg

24

<210> 2239
<211> 33
<212> DNA
<213> Homo sapiens

<400> 2239
tcacaaaagtc tcagtcagg ctcttgccctt agc

33

<210> 2240
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2240
tgtgtcatgt aatgcaacca accacagca

29

<210> 2241
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2241
gcagttctca cgttgaggtc tgtggaaga

29

<210> 2242
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2242
tggcgccaaac accggtagt t

21

<210> 2243
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2243
tggcagccgt gtcattagtt gggg

24

<210> 2244
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2244
tctggagggc caggtggggg

20

<210> 2245
<211> 27

<212> DNA
<213> Homo sapiens

<400> 2245
gctcaactct ggagcctctg gtaggca

27

<210> 2246
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2246
gtgccttaa gtgaggggcg cc

22

<210> 2247
<211> 33
<212> DNA
<213> Homo sapiens

<400> 2247
ggaccttttg tacttggtag aagttctgca ccg

33

<210> 2248
<211> 32
<212> DNA
<213> Homo sapiens

<400> 2248
tgcttttgt tatggacaat gttcagctga ca

32

<210> 2249
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2249
cctgtatgtc agcaggaatg ttgctggc

28

<210> 2250
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2250
ctacgcatcc gtggccgcg

19

<210> 2251
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2251
tgggccacctt tggccagcc ga

22

<210> 2252
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2252
cgccgcctcc ttgctggct 19

<210> 2253
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2253
gcacaacttg gtaaggcacc aggttacga 29

<210> 2254
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2254
accccccctcag cctcggccag 20

<210> 2255
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2255
ctgggccago ttgcacgcct 20

<210> 2256
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2256
tctgcaggca accagccagt catg 24

<210> 2257
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2257
agcagcgtgg cggcgaaaga 20

<210> 2258
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2258
tggggcattt tcctttgttt ggca 24

<210> 2259
<211> 34
<212> DNA
<213> Homo sapiens

<400> 2259
ccacttccta aagcagctac atgaaacagc ttca 34

<210> 2260
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2260
tccgtgtcca ccatcgggct g 21

<210> 2261
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2261
tgccggcgagc tatgggggtg 20

<210> 2262
<211> 34
<212> DNA
<213> Homo sapiens

<400> 2262
gcagggtttg aagcaatacc caggtataaa cact 34

<210> 2263
<211> 31
<212> DNA
<213> Homo sapiens

<400> 2263
gagataaaaa gtaccagaag cgggacttgg c 31

<210> 2264
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2264
acagctgaaa cccgcggggc 20

<210> 2265
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2265		26
tcatggctga cttcccaaag acagcc		
<210> 2266		
<211> 30		
<212> DNA		
<213> Homo sapiens		
<400> 2266		30
tcccaacttaa taaaaaccgat atcccttcgcg		
<210> 2267		
<211> 24		
<212> DNA		
<213> Homo sapiens		
<400> 2267		24
tgcactggac actggccctg actg		
<210> 2268		
<211> 22		
<212> DNA		
<213> Homo sapiens		
<400> 2268		22
ccccaaacagg tcatggtgcg ca		
<210> 2269		
<211> 24		
<212> DNA		
<213> Homo sapiens		
<400> 2269		24
tggccctgaa actcctcact ccca		
<210> 2270		
<211> 25		
<212> DNA		
<213> Homo sapiens		
<400> 2270		25
gagaccaatg tgcctgaagg tgcca		
<210> 2271		
<211> 20		
<212> DNA		
<213> Homo sapiens		
<400> 2271		20
gggtgagggc ctgatgggggg		
<210> 2272		
<211> 20		
<212> DNA		

<213> Homo sapiens

<400> 2272

cagccactgg ctcctgcgg

20

<210> 2273

<211> 34

<212> DNA

<213> Homo sapiens

<400> 2273

aagtccattc ctgattcaga acaccctgtc taga

34

<210> 2274

<211> 23

<212> DNA

<213> Homo sapiens

<400> 2274

tgctttgatg acacccacccg caa

23

<210> 2275

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2275

cccgctctgc tggcggtcct

20

<210> 2276

<211> 24

<212> DNA

<213> Homo sapiens

<400> 2276

tccaccaccc tggcggtcct gcca

24

<210> 2277

<211> 21

<212> DNA

<213> Homo sapiens

<400> 2277

cccccagggg agaagctggg a

21

<210> 2278

<211> 21

<212> DNA

<213> Homo sapiens

<400> 2278

ggggcttcca ccctggagcc a

21

<210> 2279

<211> 24
<212> DNA
<213> Homo sapiens

<400> 2279
tggcatggga tgcagatgtat ttgg 24

<210> 2280
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2280
gaggggtggctt gggggccaaac 20

<210> 2281
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2281
tgggacgctt ttgatggcta agcca 25

<210> 2282
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2282
tgccccgtctt ggggtctggaa 20

<210> 2283
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2283
acggcactga gctgatggga ctcc 24

<210> 2284
<211> 31
<212> DNA
<213> Homo sapiens

<400> 2284
tcctggaagt taactgcacc atcagtgttg a 31

<210> 2285
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2285
tcaatttcat gatttcatct cgctcaaggc 30

<210> 2286	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 2286	
tggcggtcac gaggaccatc ttc	23
<210> 2287	
<211> 26	
<212> DNA	
<213> Homo sapiens	
<400> 2287	
ggacagtggaa gcagccaaaca cacaaa	26
<210> 2288	
<211> 30	
<212> DNA	
<213> Homo sapiens	
<400> 2288	
caagtaagac ccaaggttaga tcccaagggc	30
<210> 2289	
<211> 33	
<212> DNA	
<213> Homo sapiens	
<400> 2289	
aactcaagtg gatgggaagt aaagccctat gtg	33
<210> 2290	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 2290	
cccacctggg gaactgctgg c	21
<210> 2291	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 2291	
cgcagggtt ttcccagtca cg	22
<210> 2292	
<211> 28	
<212> DNA	
<213> Homo sapiens	
<400> 2292	

ccagccctcc cacttttca tcactgtt

28

<210> 2293
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2293
tggaggcaga gtgacggact

20

<210> 2294
<211> 32
<212> DNA
<213> Homo sapiens

<400> 2294
aggagcaaaa agccaaaatt tggaaaagct tt

32

<210> 2295
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2295
tcagggccaa ttggaaagtc attatgaaca

30

<210> 2296
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2296
cagcctgtgc tggcgaggcc

20

<210> 2297
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2297
tgcgtttatac cgaaaattta ttctcgccct

30

<210> 2298
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2298
ccaatgcttg gctggggca

20

<210> 2299
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2299
aggcctcagc cccagggtcg

20

<210> 2300
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2300
ggggtgtgagag gaaggcctgc ga

22

<210> 2301
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2301
gctcaagttc ccagcacctg ggg

23

<210> 2302
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2302
tgacgcattc taatcatgtg gcgatcttgc

29

<210> 2303
<211> 33
<212> DNA
<213> Homo sapiens

<400> 2303
ccccctaaaa tcccactgta aacaaacatt tcg

33

<210> 2304
<211> 36
<212> DNA
<213> Homo sapiens

<400> 2304
agctgcaact ttacaggac ttgaaaagaa agaaaa

36

<210> 2305
<211> 32
<212> DNA
<213> Homo sapiens

<400> 2305
gggaaaacttc ttgttgcaaga tactgagctg ga

32

<210> 2306
<211> 26

<212> DNA
<213> Homo sapiens

<400> 2306
ttccagaaac cagcacctcc ctgttg

26

<210> 2307
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2307
cagagagctt aggccctggca gtcttca

27

<210> 2308
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2308
tggccatcct gatttcttga tcttttcaca

30

<210> 2309
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2309
cgggccagcc agttaaaatc gtcaa

25

<210> 2310
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2310
ctccgggttc tcctccgcgg

20

<210> 2311
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2311
tgaacaacct gactgacacc cccagg

26

<210> 2312
<211> 36
<212> DNA
<213> Homo sapiens

<400> 2312
tgcgaaacctt gatatgttt taaagaaggc acttga

36

<210> 2313
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2313
tgagcacccga cagctccagc tga

23

<210> 2314
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2314
ggggtgtctggg aatggcaggc a

21

<210> 2315
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2315
gcgcgcagga cgacggaaac

20

<210> 2316
<211> 19
<212> DNA
<213> Homo sapiens

<400> 2316
tcgtgcgtgc ctaccccg

19

<210> 2317
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2317
ggggaaaagc caccctgact ctgc

24

<210> 2318
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2318
tgcaaaaacc agaggaaggg tgtgctc

27

<210> 2319
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2319
tggcaccatg atcgtggcac g

21

<210> 2320
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2320
gccgtgagtt tttgctctta ctccccagg 28

<210> 2321
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2321
gccccatcct tgcaaggtaa cccg 24

<210> 2322
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2322
tgtgtatttg ctttcagcca catccaga 28

<210> 2323
<211> 34
<212> DNA
<213> Homo sapiens

<400> 2323
catgcttaat ttgttgtaa cgttagggcag ctca 34

<210> 2324
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2324
ccaaactctca ctgggaccag agagcca 27

<210> 2325
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2325
ccagatggag aaggtagcct gggcc 25

<210> 2326
<211> 32
<212> DNA
<213> Homo sapiens

<400> 2326
tgaggccaaat acccacaaaa acaaacacaa aa

32

<210> 2327
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2327
tttgatctcc ttcttggaaag cctcatcca

29

<210> 2328
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2328
cctgcagcca gcactggta agca

24

<210> 2329
<211> 35
<212> DNA
<213> Homo sapiens

<400> 2329
tttgcttgct tgtactcagc tttttgttagg acatt

35

<210> 2330
<211> 34
<212> DNA
<213> Homo sapiens

<400> 2330
tcagatttca catgtatggc tctgtcctac tgct

34

<210> 2331
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2331
aacgtaatca tacctctagt catagca

27

<210> 2332
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2332
ggcatctgct gcaggaacct tctgtg

26

<210> 2333
<211> 25
<212> DNA

<213> Homo sapiens

<400> 2333

gcaacccagg ggaagcacag aagtg

25

<210> 2334

<211> 31

<212> DNA

<213> Homo sapiens

<400> 2334

tcatgtctgt gaagggact ggaacaactg a

31

<210> 2335

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2335

cgcggtgtga gggaaaggggg

20

<210> 2336

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2336

tgggcacatc gtgaggggcc

20

<210> 2337

<211> 33

<212> DNA

<213> Homo sapiens

<400> 2337

acaccatagt cctttgagat ctgatggtc aaa

33

<210> 2338

<211> 25

<212> DNA

<213> Homo sapiens

<400> 2338

tggcgagctc aggattctc atcca

25

<210> 2339

<211> 25

<212> DNA

<213> Homo sapiens

<400> 2339

tgggcttgcg ttttctcca actcc

25

<210> 2340

<211> 32
<212> DNA
<213> Homo sapiens

<400> 2340
tccgttcctc aagattctat tctcacccctt cc 32

<211> 29
<212> DNA
<213> Homo sapiens

<400> 2341
ttccagagt caccaagagg tcctgaatc 29

<211> 20
<212> DNA
<213> Homo sapiens

<400> 2342
gcgagcacgg ctgtggctca 20

<211> 27
<212> DNA
<213> Homo sapiens

<400> 2343
cccccttc tcaacatctt gtccagc 27

<211> 21
<212> DNA
<213> Homo sapiens

<400> 2344
tgccgggcct tctcctcaag g 21

<211> 23
<212> DNA
<213> Homo sapiens

<400> 2345
caggtggcct ggaggggaga aca 23

<211> 30
<212> DNA
<213> Homo sapiens

<400> 2346
cggtcttgca caaatgacgt acatttcaca 30

<210> 2347
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2347
agccctgccc tgccccctcct

20

<210> 2348
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2348
ttcccaggct gcctctccctc acc

23

<210> 2349
<211> 31
<212> DNA
<213> Homo sapiens

<400> 2349
tccatcaactc tgagtatggc gtttgctgtc c

31

<210> 2350
<211> 33
<212> DNA
<213> Homo sapiens

<400> 2350
tccacactct ctctttgtc ttgggtttct tcc

33

<210> 2351
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2351
ccaccaggcc cagctagcat ctgg

24

<210> 2352
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2352
cagggactgg cctgtccccc a

21

<210> 2353
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2353

ctgtaagccc ccttttggat gccaaa

26

<210> 2354

<211> 33

<212> DNA

<213> Homo sapiens

<400> 2354

catcctaagg caaatctgtat tgaaccaggt tca

33

<210> 2355

<211> 35

<212> DNA

<213> Homo sapiens

<400> 2355

tgagcagaat cccatcgtaa cagttctttg ttaca

35

<210> 2356

<211> 31

<212> DNA

<213> Homo sapiens

<400> 2356

ccaaagtccccca agggtcagta tattggagga a

31

<210> 2357

<211> 20

<212> DNA

<213> Homo sapiens

<400> 2357

cgcaacaaca agcgcacgca

20

<210> 2358

<211> 31

<212> DNA

<213> Homo sapiens

<400> 2358

ccctgcaagt acccaggaa ggatatagtc a

31

<210> 2359

<211> 35

<212> DNA

<213> Homo sapiens

<400> 2359

tttgtacat agttgggcat ctgtatttcc acttg

35

<210> 2360

<211> 32

<212> DNA

<213> Homo sapiens

<400> 2360
agaggggaaa acctattcta cccaacacag ca

32

<210> 2361
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2361
tgggggaagg gggccttggt

20

<210> 2362
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2362
aacgaggccct gggctgggaa

20

<210> 2363
<211> 32
<212> DNA
<213> Homo sapiens

<400> 2363
tcagaaaaga aaagctcttt agactagcaa tg

32

<210> 2364
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2364
tcctggagct gtgggggtggc a

21

<210> 2365
<211> 23
<212> DNA
<213> Homo sapiens

<400> 2365
agcgaccaca gctccgatga cca

23

<210> 2366
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2366
ccgaggggcgt tccacccgtt

20

<210> 2367
<211> 24

<212> DNA
<213> Homo sapiens

<400> 2367
tcccccaagct ccctcctcac tttg

24

<210> 2368
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2368
acccggctgc gcaggctgaa

20

<210> 2369
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2369
tgagccactg gcccacaagg g

21

<210> 2370
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2370
tccgtgacct cgggctcccc

20

<210> 2371
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2371
cccccgcttg aaggcgttga

20

<210> 2372
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2372
tgggcatggg ttatcctctg ctgg

24

<210> 2373
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2373
tgtcggtggag taaagaggga aacatgacca

30

<210> 2374
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2374
cgggagcagg acagggagcc a 21

<210> 2375
<211> 30
<212> DNA
<213> Homo sapiens

<400> 2375
tggctcagta gcaacttggg gacttgtttt 30

<210> 2376
<211> 32
<212> DNA
<213> Homo sapiens

<400> 2376
tgtttttgga aatcactaat agggccagcc tc 32

<210> 2377
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2377
tgggagtctt gtgtctgtgc caacca 26

<210> 2378
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2378
agggggaggt ggcagtggct g 21

<210> 2379
<211> 20
<212> DNA
<213> Homo sapiens

<400> 2379
acgcacaggg atggacgcgg 20

<210> 2380
<211> 29
<212> DNA
<213> Homo sapiens

<400> 2380
cctctgtgac atgggtggtaa cagcacaga 29

<210> 2381
<211> 27
<212> DNA
<213> Homo sapiens

<400> 2381
cccatggcat gaacaaaatag gatgcct

27

<210> 2382
<211> 34
<212> DNA
<213> Homo sapiens

<400> 2382
tcccaactgc aaaccctcat ttagtcttta gtga

34

<210> 2383
<211> 22
<212> DNA
<213> Homo sapiens

<400> 2383
tggagggaca gaggtgggtg gg

22

<210> 2384
<211> 33
<212> DNA
<213> Homo sapiens

<400> 2384
cgccagttag ttaagttgta cagaacatcg tca

33

<210> 2385
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2385
gggaagacag acagcagcag accca

25

<210> 2386
<211> 31
<212> DNA
<213> Homo sapiens

<400> 2386
caccctttgg acatttgca actcttcaat g

31

<210> 2387
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2387
tgggacccag gacgacgtcc a

21

<210> 2388
<211> 24
<212> DNA
<213> Homo sapiens

<400> 2388
tgccacttct ggtctcgteg gtga

24

<210> 2389
<211> 28
<212> DNA
<213> Homo sapiens

<400> 2389
ctccccagcc cacaatttca aataatgc

28

<210> 2390
<211> 34
<212> DNA
<213> Homo sapiens

<400> 2390
accaacttac tcttaaaaag gatggctgcc aaga

34

<210> 2391
<211> 21
<212> DNA
<213> Homo sapiens

<400> 2391
tgtcagctcc acgggggtcc c

21

<210> 2392
<211> 26
<212> DNA
<213> Homo sapiens

<400> 2392
gagtccagaa agaaatgcct gggca

26

<210> 2393
<211> 25
<212> DNA
<213> Homo sapiens

<400> 2393
cccaaagaag ggtcagccaa agcca

25

<210> 2394
<211> 21
<212> DNA

<213> Homo sapiens

<400> 2394

ggcctggtgt ctgctctgcg g

21

<210> 2395

<211> 27

<212> DNA

<213> Homo sapiens

<400> 2395

tcagccaagg tagcctcctt agccagc

27

<210> 2396

<211> 34

<212> DNA

<213> Homo sapiens

<400> 2396

tcagtagatgtat atgtcctatt ttcccactgc acca

34

<210> 2397

<211> 30

<212> DNA

<213> Homo sapiens

<400> 2397

ttcctgatt tgcattgtct cattccaaa

30

<210> 2398

<211> 29

<212> DNA

<213> Homo sapiens

<400> 2398

tccagaaaaat tggaaaggagt ctggaatgg

29

<210> 2399

<211> 25

<212> DNA

<213> Homo sapiens

<400> 2399

cccagttcac agtccccattc tggca

25

<210> 2400

<211> 375

<212> PRT

<213> Homo sapiens

<400> 2400

Met Asp Asp Asp Ile Ala Ala Leu Val Val Asp Asn Gly Ser Gly Met
1 5 10 15

Cys Lys Ala Gly Phe Ala Gly Asp Asp Ala Pro Arg Ala Val Phe Pro
20 25 30

Ser Ile Val Gly Arg Pro Arg His Gln Gly Val Met Val Gly Met Gly
35 40 45

Gln Lys Asp Ser Tyr Val Gly Asp Glu Ala Gln Ser Lys Arg Gly Ile
50 55 60

Leu Thr Leu Lys Tyr Pro Ile Glu His Gly Ile Val Thr Asn Trp Asp
65 70 75 80

Asp Met Glu Lys Ile Trp His His Thr Phe Tyr Asn Glu Leu Arg Val
85 90 95

Ala Pro Glu Glu His Pro Val Leu Leu Thr Glu Ala Pro Leu Asn Pro
100 105 110

Lys Ala Asn Arg Glu Lys Met Thr Gln Ile Met Phe Glu Thr Phe Asn
115 120 125

Thr Pro Ala Met Tyr Val Ala Ile Gln Ala Val Leu Ser Leu Tyr Ala
130 135 140

Ser Gly Arg Thr Thr Gly Ile Val Met Asp Ser Gly Asp Gly Val Thr
145 150 155 160

His Thr Val Pro Ile Tyr Glu Gly Tyr Ala Leu Pro His Ala Ile Leu
165 170 175

Arg Leu Asp Leu Ala Gly Arg Asp Leu Thr Asp Tyr Leu Met Lys Ile
180 185 190

Leu Thr Glu Arg Gly Tyr Ser Phe Thr Thr Ala Glu Arg Glu Ile
195 200 205

Val Arg Asp Ile Lys Glu Lys Leu Cys Tyr Val Ala Leu Asp Phe Glu
210 215 220

Gln Glu Met Ala Thr Ala Ala Ser Ser Ser Ser Leu Glu Lys Ser Tyr
225 230 235 240

Glu Leu Pro Asp Gly Gln Val Ile Thr Ile Gly Asn Glu Arg Phe Arg
245 250 255

Cys Pro Glu Ala Leu Phe Gln Pro Ser Phe Leu Gly Met Glu Ser Cys
 260 265 270

Gly Ile His Glu Thr Thr Phe Asn Ser Ile Met Lys Cys Asp Val Asp
 275 280 285

Ile Arg Lys Asp Leu Tyr Ala Asn Thr Val Leu Ser Gly Gly Thr Thr
 290 295 300

Met Tyr Pro Gly Ile Ala Asp Arg Met Gln Lys Glu Ile Thr Ala Leu
 305 310 315 320

Ala Pro Ser Thr Met Lys Ile Lys Ile Ile Ala Pro Pro Glu Arg Lys
 325 330 335

Tyr Ser Val Trp Ile Gly Gly Ser Ile Leu Ala Ser Leu Ser Thr Phe
 340 345 350

Gln Gln Met Trp Ile Ser Lys Gln Glu Tyr Asp Glu Ser Gly Pro Ser
 355 360 365

Ile Val His Arg Lys Cys Phe
 370 375

<210> 2401

<211> 651

<212> PRT

<213> Homo sapiens

<400> 2401

Met Ala Arg Gly Ser Ala Val Ala Trp Ala Ala Leu Gly Pro Leu Leu
 1 5 10 15

Trp Gly Cys Ala Leu Gly Leu Gln Gly Gly Met Leu Tyr Pro Gln Glu
 20 25 30

Ser Pro Ser Arg Glu Cys Lys Glu Leu Asp Gly Leu Trp Ser Phe Arg
 35 40 45

Ala Asp Phe Ser Asp Asn Arg Arg Gly Phe Glu Glu Gln Trp Tyr
 50 55 60

Arg Arg Pro Leu Trp Glu Ser Gly Pro Thr Val Asp Met Pro Val Pro
 65 70 75 80

Ser Ser Phe Asn Asp Ile Ser Gln Asp Trp Arg Leu Arg His Phe Val
 85 90 95

Gly Trp Val Trp Tyr Glu Arg Glu Val Ile Leu Pro Glu Arg Trp Thr
 100 105 110

Gln Asp Leu Arg Thr Arg Val Val Leu Arg Ile Gly Ser Ala His Ser
 115 120 125

Tyr Ala Ile Val Trp Val Asn Gly Val Asp Thr Leu Glu His Glu Gly
 130 135 140

Gly Tyr Leu Pro Phe Glu Ala Asp Ile Ser Asn Leu Val Gln Val Gly
 145 150 155 160

Pro Leu Pro Ser Arg Leu Arg Ile Thr Ile Ala Ile Asn Asn Thr Leu
 165 170 175

Thr Pro Thr Thr Leu Pro Pro Gly Thr Ile Gln Tyr Leu Thr Asp Thr
 180 185 190

Ser Lys Tyr Pro Lys Gly Tyr Phe Val Gln Asn Thr Tyr Phe Asp Phe
 195 200 205

Phe Asn Tyr Ala Gly Leu Gln Arg Ser Val Leu Leu Tyr Thr Thr Pro
 210 215 220

Thr Thr Tyr Ile Asp Asp Ile Thr Val Thr Thr Ser Val Glu Gln Asp
 225 230 235 240

Ser Gly Leu Val Asn Tyr Gln Ile Ser Val Lys Gly Ser Asn Leu Phe
 245 250 255

Lys Leu Glu Val Arg Leu Leu Asp Ala Glu Asn Lys Val Val Ala Asn
 260 265 270

Gly Thr Gly Thr Gln Gly Gln Leu Lys Val Pro Gly Val Ser Leu Trp
 275 280 285

Trp Pro Tyr Leu Met His Glu Arg Pro Ala Tyr Leu Tyr Ser Leu Glu
 290 295 300

Val Gln Leu Thr Ala Gln Thr Ser Leu Gly Pro Val Ser Asp Phe Tyr
 305 310 315 320

Thr Leu Pro Val Gly Ile Arg Thr Val Ala Val Thr Lys Ser Gln Phe
 325 330 335

Leu Ile Asn Gly Lys Pro Phe Tyr Phe His Gly Val Asn Lys His Glu
340 345 350

Asp Ala Asp Ile Arg Gly Lys Gly Phe Asp Trp Pro Leu Leu Val Lys
355 360 365

Asp Phe Asn Leu Leu Arg Trp Leu Gly Ala Asn Ala Phe Arg Thr Ser
370 375 380

His Tyr Pro Tyr Ala Glu Glu Val Met Gln Met Cys Asp Arg Tyr Gly
385 390 395 400

Ile Val Val Ile Asp Glu Cys Pro Gly Val Gly Leu Ala Leu Pro Gln
405 410 415

Phe Phe Asn Asn Val Ser Leu His His Met Gln Val Met Glu Glu
420 425 430

Val Val Arg Arg Asp Lys Asn His Pro Ala Val Val Met Trp Ser Val
435 440 445

Ala Asn Glu Pro Ala Ser His Leu Glu Ser Ala Gly Tyr Tyr Leu Lys
450 455 460

Met Val Ile Ala His Thr Lys Ser Leu Asp Pro Ser Arg Pro Val Thr
465 470 475 480

Phe Val Ser Asn Ser Asn Tyr Ala Ala Asp Lys Gly Ala Pro Tyr Val
485 490 495

Asp Val Ile Cys Leu Asn Ser Tyr Tyr Ser Trp Tyr His Asp Tyr Gly
500 505 510

His Leu Glu Leu Ile Gln Leu Gln Leu Ala Thr Gln Phe Glu Asn Trp
515 520 525

Tyr Lys Lys Tyr Gln Lys Pro Ile Ile Gln Ser Glu Tyr Gly Ala Glu
530 535 540

Thr Ile Ala Gly Phe His Gln Asp Pro Pro Leu Met Phe Thr Glu Glu
545 550 555 560

Tyr Gln Lys Ser Leu Leu Glu Gln Tyr His Leu Gly Leu Asp Gln Lys
565 570 575

Arg Arg Lys Tyr Val Val Gly Glu Leu Ile Trp Asn Phe Ala Asp Phe
 580 585 590

Met Thr Glu Gln Ser Pro Thr Arg Val Leu Gly Asn Lys Lys Gly Ile
 595 600 605

Phe Thr Arg Gln Arg Gln Pro Lys Ser Ala Ala Phe Leu Leu Arg Glu
 610 615 620

Arg Tyr Trp Lys Ile Ala Asn Glu Thr Arg Tyr Pro His Ser Val Ala
 625 630 635 640

Lys Ser Gln Cys Leu Glu Asn Ser Pro Phe Thr
 645 650

<210> 2402

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2402

Met Ser Arg Ser Val Ala Leu Ala Val Leu Ala Leu Leu Ser Leu Ser
 1 5 10 15

Gly Leu Glu Ala Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg
 20 25 30

His Pro Ala Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser
 35 40 45

Gly Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu
 50 55 60

Arg Ile Glu Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp
 65 70 75 80

Ser Phe Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys Asp
 85 90 95

Glu Tyr Ala Cys Arg Val Asn His Val Thr Leu Ser Gln Pro Lys Ile
 100 105 110

Val Lys Trp Asp Arg Asp Met
 115

<210> 2403

<211> 228

<212> PRT

<213> Homo sapiens

<400> .2403

Met Ser Val Ser Glu Ile Phe Val Glu Leu Gln Gly Phe Leu Ala Ala
1 5 10 15

Glu Gln Asp Ile Arg Glu Glu Ile Arg Lys Val Val Gln Ser Leu Glu
20 25 30

Gln Thr Ala Arg Glu Ile Leu Thr Leu Leu Gln Gly Val His Gln Gly
35 40 45

Ala Gly Phe Gln Asp Ile Pro Lys Arg Cys Leu Lys Ala Arg Glu His
50 55 60

Phe Gly Thr Val Lys Thr His Leu Thr Ser Leu Lys Thr Lys Phe Pro
65 70 75 80

Ala Glu Gln Tyr Tyr Arg Phe His Glu His Trp Arg Phe Val Leu Gln
85 90 95

Arg Leu Val Phe Leu Ala Ala Phe Val Val Tyr Leu Glu Thr Glu Thr
100 105 110

Leu Val Thr Arg Glu Ala Val Thr Glu Ile Leu Gly Ile Glu Pro Asp
115 120 125

Arg Glu Lys Gly Phe His Leu Asp Val Glu Asp Tyr Leu Ser Gly Val
130 135 140

Leu Ile Leu Ala Ser Glu Leu Ser Arg Leu Ser Val Asn Ser Val Thr
145 150 155 160

Ala Gly Asp Tyr Ser Arg Pro Leu His Ile Ser Thr Phe Ile Asn Glu
165 170 175

Leu Asp Ser Gly Phe Arg Leu Leu Asn Leu Lys Asn Asp Ser Leu Arg
180 185 190

Lys Arg Tyr Asp Gly Leu Lys Tyr Asp Val Lys Lys Val Glu Glu Val
195 200 205

Val Tyr Asp Leu Ser Ile Arg Gly Phe Asn Lys Glu Thr Ala Ala Ala
210 215 220

Cys Val Glu Lys
225

<210> 2404
<211> 378
<212> PRT
<213> Homo sapiens

<400> 2404

Met Asp Leu Gly Lys Pro Met Lys Ser Val Leu Val Val Ala Leu Leu
1 5 10 15

Val Ile Phe Gln Val Cys Leu Cys Gln Asp Glu Val Thr Asp Asp Tyr
20 25 30

Ile Gly Asp Asn Thr Thr Val Asp Tyr Thr Leu Phe Glu Ser Leu Cys
35 40 45

Ser Lys Lys Asp Val Arg Asn Phe Lys Ala Trp Phe Leu Pro Ile Met
50 55 60

Tyr Ser Ile Ile Cys Phe Val Gly Leu Leu Gly Asn Gly Leu Val Val
65 70 75 80

Leu Thr Tyr Ile Tyr Phe Lys Arg Leu Lys Thr Met Thr Asp Thr Tyr
85 90 95

Leu Leu Asn Leu Ala Val Ala Asp Ile Leu Phe Leu Leu Thr Leu Pro
100 105 110

Phe Trp Ala Tyr Ser Ala Ala Lys Ser Trp Val Phe Gly Val His Phe
115 120 125

Cys Lys Leu Ile Phe Ala Ile Tyr Lys Met Ser Phe Phe Ser Gly Met
130 135 140

Leu Leu Leu Cys Ile Ser Ile Asp Arg Tyr Val Ala Ile Val Gln
145 150 155 160

Ala Val Ser Ala His Arg His Arg Ala Arg Val Leu Leu Ile Ser Lys
165 170 175

Leu Ser Cys Val Gly Ile Trp Ile Leu Ala Thr Val Leu Ser Ile Pro
180 185 190

Glu Leu Leu Tyr Ser Asp Leu Gln Arg Ser Ser Ser Glu Gln Ala Met
195 200 205

Arg Cys Ser Leu Ile Thr Glu His Val Glu Ala Phe Ile Thr Ile Gln
 210 215 220

Val Ala Gln Met Val Ile Gly Phe Leu Val Pro Leu Leu Ala Met Ser
 225 230 235 240

Phe Cys Tyr Leu Val Ile Ile Arg Thr Leu Leu Gln Ala Arg Asn Phe
 245 250 255

Glu Arg Asn Lys Ala Ile Lys Val Ile Ile Ala Val Val Val Val Phe
 260 265 270

Ile Val Phe Gln Leu Pro Tyr Asn Gly Val Val Leu Ala Gln Thr Val
 275 280 285

Ala Asn Phe Asn Ile Thr Ser Ser Thr Cys Glu Leu Ser Lys Gln Leu
 290 295 300

Asn Ile Ala Tyr Asp Val Thr Tyr Ser Leu Ala Cys Val Arg Cys Cys
 305 310 315 320

Val Asn Pro Phe Leu Tyr Ala Phe Ile Gly Val Lys Phe Arg Asn Asp
 325 330 335

Leu Phe Lys Leu Phe Lys Asp Leu Gly Cys Leu Ser Gln Glu Gln Leu
 340 345 350

Arg Gln Trp Ser Ser Cys Arg His Ile Arg Arg Ser Ser Met Ser Val
 355 360 365

Glu Ala Glu Thr Thr Thr Phe Ser Pro
 370 375

<210> 2405

<211> 398

<212> PRT

<213> Homo sapiens

<400> 2405

Met Leu Arg Leu Tyr Val Leu Val Met Gly Val Ser Ala Phe Thr Leu
 1 5 10 15

Gln Pro Ala Ala His Thr Gly Ala Ala Arg Ser Cys Arg Phe Arg Gly
 20 25 30

Arg His Tyr Lys Arg Glu Phe Arg Leu Glu Gly Glu Pro Val Ala Leu
 35 40 45

Arg Cys Pro Gln Val Pro Tyr Trp Leu Trp Ala Ser Val Ser Pro Arg
 50 55 60

Ile Asn Leu Thr Trp His Lys Asn Asp Ser Ala Arg Thr Val Pro Gly
 65 70 75 80

Glu Glu Glu Thr Arg Met Trp Ala Gln Asp Gly Ala Leu Trp Leu Leu
 85 90 95

Pro Ala Leu Gln Glu Asp Ser Gly Thr Tyr Val Cys Thr Thr Arg Asn
 100 105 110

Ala Ser Tyr Cys Asp Lys Met Ser Ile Glu Leu Arg Val Phe Glu Asn
 115 120 125

Thr Asp Ala Phe Leu Pro Phe Ile Ser Tyr Pro Gln Ile Leu Thr Leu
 130 135 140

Ser Thr Ser Gly Val Leu Val Cys Pro Asp Leu Ser Glu Phe Thr Arg
 145 150 155 160

Asp Lys Thr Asp Val Lys Ile Gln Trp Tyr Lys Asp Ser Leu Leu
 165 170 175

Asp Lys Asp Asn Glu Lys Phe Leu Ser Val Arg Gly Thr Thr His Leu
 180 185 190

Leu Val His Asp Val Ala Leu Glu Asp Ala Gly Tyr Tyr Arg Cys Val
 195 200 205

Leu Thr Phe Ala His Glu Gly Gln Gln Tyr Asn Ile Thr Arg Ser Ile
 210 215 220

Glu Leu Arg Ile Lys Lys Lys Glu Glu Thr Ile Pro Val Ile Ile
 225 230 235 240

Ser Pro Leu Lys Thr Ile Ser Ala Ser Leu Gly Ser Arg Leu Thr Ile
 245 250 255

Pro Cys Lys Val Phe Leu Gly Thr Gly Thr Pro Leu Thr Thr Met Leu
 260 265 270

Trp Trp Thr Ala Asn Asp Thr His Ile Glu Ser Ala Tyr Pro Gly Gly

275

280

285

Arg Val Thr Glu Gly Pro Arg Gln Glu Tyr Ser Glu Asn Asn Glu Asn
290 295 300

Tyr Ile Glu Val Pro Leu Ile Phe Asp Pro Val Thr Arg Glu Asp Leu
305 310 315 320

His Met Asp Phe Lys Cys Val Val His Asn Thr Leu Ser Phe Gln Thr
325 330 335

Leu Arg Thr Thr Val Lys Glu Ala Ser Ser Thr Phe Ser Trp Gly Ile
340 345 350

Val Leu Ala Pro Leu Ser Leu Ala Phe Leu Val Leu Gly Gly Ile Trp
355 360 365

Met His Arg Arg Cys Lys His Arg Thr Gly Lys Ala Asp Gly Leu Thr
370 375 380

Val Leu Trp Pro His His Gln Asp Phe Gln Ser Tyr Pro Lys
385 390 395

<210> 2406

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2406

Met Glu Phe Asp Leu Asn Gly Asn Gly Asp Ile Gly Glu Lys Arg Val
1 5 10 15

Ile Cys Gly Gly Arg Val Val Cys Arg Pro Lys Lys Thr Glu Val Ser
20 25 30

Pro Thr Cys Ser Ile Pro His Asp Leu Gly Gly Pro Pro Thr Thr
35 40 45

Val Gly Gly Arg Arg Met Gly Met Arg Lys Trp Glu Arg Arg Glu Arg
50 55 60

Val Ser Pro Pro Ser Pro His Pro His Pro Leu Pro Pro Asp Ile Met
65 70 75 80

Ser Leu Lys Arg Met Leu Glu Lys Leu Gly Val Pro Lys Thr His Leu
85 90 95

Glu Leu Lys Lys Leu Ile Gly Glu Val Ser Ser Gly Ser Gly Glu Thr
 100 105 110

Phe Ser Tyr Pro Asp Phe Leu Arg Met Met Leu Gly Lys Arg Ser Ala
 115 120 125

Ile Leu Lys Met
 130

<210> 2407
<211> 587
<212> PRT
<213> Homo sapiens

<400> 2407

Met Val Thr Ala Ala Met Leu Leu Gln Cys Cys Pro Val Leu Ala Arg
 1 5 10 15

Gly Pro Thr Ser Leu Leu Gly Lys Val Val Lys Thr His Gln Phe Leu
 20 25 30

Phe Gly Ile Gly Arg Cys Pro Ile Leu Ala Thr Gln Gly Pro Asn Cys
 35 40 45

Ser Gln Ile His Leu Lys Ala Thr Lys Ala Gly Gly Asp Ser Pro Ser
 50 55 60

Trp Ala Lys Gly His Cys Pro Phe Met Leu Ser Glu Leu Gln Asp Gly
 65 70 75 80

Lys Ser Lys Ile Val Gln Lys Ala Ala Pro Glu Val Gln Glu Asp Val
 85 90 95

Lys Ala Phe Lys Thr Asp Leu Pro Ser Ser Leu Val Ser Val Ser Leu
 100 105 110

Arg Lys Pro Phe Ser Gly Pro Gln Glu Gln Gln Ile Ser Gly Lys
 115 120 125

Val Thr His Leu Ile Gln Asn Asn Met Pro Gly Asn Tyr Val Phe Ser
 130 135 140

Tyr Asp Gln Phe Phe Arg Asp Lys Ile Met Glu Lys Lys Gln Asp His
 145 150 155 160

Thr Tyr Arg Val Phe Lys Thr Val Asn Arg Trp Ala Asp Ala Tyr Pro

165

170

175

Phe Ala Gln His Phe Phe Glu Ala Ser Val Ala Ser Lys Asp Val Ser
 180 185 190

Val Trp Cys Ser Asn Asp Tyr Leu Gly Met Ser Arg His Pro Gln Val
 195 200 205

Leu Gln Ala Thr Gln Glu Thr Leu Gln Arg His Gly Ala Gly Ala Gly
 210 215 220

Gly Thr Arg Asn Ile Ser Gly Thr Ser Lys Phe His Val Glu Leu Glu
 225 230 235 240

Gln Glu Leu Ala Glu Leu His Gln Lys Asp Ser Ala Leu Leu Phe Ser
 245 250 255

Ser Cys Phe Val Ala Asn Asp Ser Thr Leu Phe Thr Leu Ala Lys Ile
 260 265 270

Leu Pro Gly Cys Glu Ile Tyr Ser Asp Ala Gly Asn His Ala Ser Met
 275 280 285

Ile Gln Gly Ile Arg Asn Ser Gly Ala Ala Lys Phe Val Phe Arg His
 290 295 300

Asn Asp Pro Asp His Leu Lys Lys Leu Leu Glu Lys Ser Asn Pro Lys
 305 310 315 320

Ile Pro Lys Ile Val Ala Phe Glu Thr Val His Ser Met Asp Gly Ala
 325 330 335

Ile Cys Pro Leu Glu Glu Leu Cys Asp Val Ser His Gln Tyr Gly Ala
 340 345 350

Leu Thr Phe Val Asp Glu Val His Ala Val Gly Leu Tyr Gly Ser Arg
 355 360 365

Gly Ala Gly Ile Gly Glu Arg Asp Gly Ile Met His Lys Ile Asp Ile
 370 375 380

Ile Ser Gly Thr Leu Gly Lys Ala Phe Gly Cys Val Gly Gly Tyr Ile
 385 390 395 400

Ala Ser Thr Arg Asp Leu Val Asp Met Val Arg Ser Tyr Ala Ala Gly
 405 410 415

Phe Ile Phe Thr Thr Ser Leu Pro Pro Met Val Leu Ser Gly Ala Leu
 420 425 430

Glu Ser Val Arg Leu Leu Lys Gly Glu Glu Gly Gln Ala Leu Arg Arg
 435 440 445

Ala His Gln Arg Asn Val Lys His Met Arg Gln Leu Leu Met Asp Arg
 450 455 460

Gly Leu Pro Val Ile Pro Cys Pro Ser His Ile Ile Pro Ile Arg Val
 465 470 475 480

Gly Asn Ala Ala Leu Asn Ser Lys Leu Cys Asp Leu Leu Leu Ser Lys
 485 490 495

His Gly Ile Tyr Val Gln Ala Ile Asn Tyr Pro Thr Val Pro Arg Gly
 500 505 510

Glu Glu Leu Leu Arg Leu Ala Pro Ser Pro His His Ser Pro Gln Met
 515 520 525

Met Glu Asp Phe Val Glu Lys Leu Leu Leu Ala Trp Thr Ala Val Gly
 530 535 540

Leu Pro Leu Gln Asp Val Ser Val Ala Ala Cys Asn Phe Cys Arg Arg
 545 550 555 560

Pro Val His Phe Glu Leu Met Ser Glu Trp Glu Arg Ser Tyr Phe Gly
 565 570 575

Asn Met Gly Pro Gln Tyr Val Thr Thr Tyr Ala
 580 585

<210> 2408
<211> 122
<212> PRT
<213> Homo sapiens

<400> 2408

Met Ser Ala Thr Trp Cys Ser Pro Glu Gly Gln Gly Met Gly Gln Gly
 1 5 10 15

Pro Gly Arg Glu Val Gly Gly Asn Ser Ala Ala Ser Gly Pro Ala Ser
 20 25 30

Pro Ile Arg Asp Pro Cys Leu Ser Glu Ala Gly Leu Lys Gly Pro Pro
 35 40 45

Ser Ala His Pro Arg Arg Leu Cys Leu Leu His Arg Leu Val Cys Phe
 50 55 60

Ser Gly Gly Leu Thr Ser Ile Gln Leu Ser Pro Arg Thr Cys Cys Ser
 65 70 75 80

His Gln Trp Ala Gln Leu Phe Ser Pro Ala Cys Phe Pro Gln Trp Arg
 85 90 95

Ala Pro Gly Cys Ser Leu Asp Asp Ser Arg Ser Leu Thr Arg Ile Arg
 100 105 110

Pro Val His Leu Pro Gly Pro Ser Leu Asp
 115 120

<210> 2409

<211> 288

<212> PRT

<213> Homo sapiens

<400> 2409

Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60 .

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
 165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

5310> 3410

241
580

42113 588
42123 BBB

<2123> PRT

-188- 2152

Met His Cys Lys Val Ser Leu Leu Asp Asp Thr Val Tyr Glu Cys Val
1 5 10

Val Glu Lys His Ala Lys Gly Gln Asp Leu Leu Lys Arg Val Cys Glu
20 25

His Leu Asn Leu Leu Glu Glu Asp Tyr Phe Gly Leu Ala Ile Trp Asp
35 40

Asn Ala Thr Ser Lys Thr Trp Leu Asp Ser Ala Lys Glu Ile Lys Lys		
50	55	60

Gln Val Arg Gly Val Pro Trp Asn Phe Thr Phe Asn Val Lys Phe Tyr			
65	70	75	80

Pro Pro Asp Pro Ala Gln Leu Thr Glu Asp Ile Thr Arg Tyr Tyr Leu		
85	90	95

Cys Leu Gln Leu Arg Gln Asp Ile Val Ala Gly Arg Leu Pro Cys Ser		
100	105	110

Phe Ala Thr Leu Ala Leu Leu Gly Ser Tyr Thr Ile Gln Ser Glu Leu		
115	120	125

Gly Asp Tyr Asp Pro Glu Leu His Gly Val Asp Tyr Val Ser Asp Phe		
130	135	140

Lys Leu Ala Pro Asn Gln Thr Lys Glu Leu Glu Glu Lys Val Met Glu			
145	150	155	160

Leu His Lys Ser Tyr Arg Ser Met Thr Pro Ala Gln Ala Asp Leu Glu		
165	170	175

Phe Leu Glu Asn Ala Lys Lys Leu Ser Met Tyr Gly Val Asp Leu His		
180	185	190

Lys Ala Lys Asp Leu Glu Gly Val Asp Ile Ile Leu Gly Val Cys Ser		
195	200	205

Ser Gly Leu Leu Val Tyr Lys Asp Lys Leu Arg Ile Asn Arg Phe Pro		
210	215	220

Trp Pro Lys Val Leu Lys Ile Ser Tyr Lys Arg Ser Ser Phe Phe Ile			
225	230	235	240

Lys Ile Arg Pro Gly Glu Gln Glu Gln Tyr Glu Ser Thr Ile Gly Phe		
245	250	255

Lys Leu Pro Ser Tyr Arg Ala Ala Lys Lys Leu Trp Lys Val Cys Val		
260	265	270

Glu His His Thr Phe Phe Arg Leu Thr Ser Thr Asp Thr Ile Pro Lys		
275	280	285

Ser Lys Phe Leu Ala Leu Gly Ser Lys Phe Arg Tyr Ser Gly Arg Thr

290

295

300

Gln Ala Gln Thr Arg Gln Ala Ser Ala Leu Ile Asp Arg Pro Ala Pro
 305 310 315 320

His Phe Glu Arg Thr Ala Ser Lys Arg Ala Ser Arg Ser Leu Asp Gly
 325 330 335

Ala Ala Ala Val Asp Ser Ala Asp Arg Ser Pro Arg Pro Thr Ser Ala
 340 345 350

Pro Ala Ile Thr Gln Gly Gln Val Ala Glu Gly Gly Val Leu Asp Ala
 355 360 365

Ser Ala Lys Lys Thr Val Val Pro Lys Ala Gln Lys Glu Thr Val Lys
 370 375 380

Ala Glu Val Lys Lys Glu Asp Glu Pro Pro Glu Gln Ala Glu Pro Glu
 385 390 395 400

Pro Thr Glu Ala Trp Lys Lys Arg Glu Arg Leu Asp Gly Glu Asn
 405 410 415

Ile Tyr Ile Arg His Ser Asn Leu Met Leu Glu Asp Leu Asp Lys Ser
 420 425 430

Gln Glu Glu Ile Lys Lys His His Ala Ser Ile Ser Glu Leu Lys Lys
 435 440 445

Asn Phe Met Glu Ser Val Pro Glu Pro Arg Pro Ser Glu Trp Asp Lys
 450 455 460

Arg Leu Ser Thr His Ser Pro Phe Arg Thr Leu Asn Ile Asn Gly Gln
 465 470 475 480

Ile Pro Thr Gly Glu Gly Pro Pro Leu Val Lys Thr Gln Thr Val Thr
 485 490 495

Ile Ser Asp Asn Ala Asn Ala Val Lys Ser Glu Ile Pro Thr Lys Asp
 500 505 510

Val Pro Ile Val His Thr Glu Thr Lys Thr Ile Thr Tyr Glu Ala Ala
 515 520 525

Gln Thr Val Lys Gly Gly Ile Ser Glu Thr Arg Ile Glu Lys Arg Ile
 530 535 540

Val Ile Thr Gly Asp Ala Asp Ile Asp His Asp Gln Val Leu Val Gln
545 550 555 560

Ala Ile Lys Glu Ala Lys Glu Gln His Pro Asp Met Ser Val Thr Lys
565 570 575

Val Val Val His Gln Glu Thr Glu Ile Ala Asp Glu
580 585

<210> 2411
<211> 982
<212> PRT
<213> Homo sapiens

<400> 2411

Met Ala Asn Ser Met Asn Gly Arg Asn Pro Gly Gly Arg Gly Asn
1 5 10 15

Pro Arg Lys Gly Arg Ile Leu Gly Ile Ile Asp Ala Ile Gln Asp Ala
20 25 30

Val Gly Pro Pro Lys Gln Ala Ala Asp Arg Arg Thr Val Glu Lys
35 40 45

Thr Trp Lys Leu Met Asp Lys Val Val Arg Leu Cys Gln Asn Pro Lys
50 55 60

Leu Gln Leu Lys Asn Ser Pro Pro Tyr Ile Leu Asp Ile Leu Pro Asp
65 70 75 80

Thr Tyr Gln His Leu Arg Leu Ile Leu Ser Lys Tyr Asp Asp Asn Gln
85 90 95

Lys Leu Ala Gln Leu Ser Glu Asn Glu Tyr Phe Lys Ile Tyr Ile Asp
100 105 110

Ser Leu Met Lys Lys Ser Lys Arg Ala Ile Arg Leu Phe Lys Glu Gly
115 120 125

Lys Glu Arg Met Tyr Glu Glu Gln Ser Gln Asp Arg Arg Asn Leu Thr
130 135 140

Lys Leu Ser Leu Ile Phe Ser His Met Leu Ala Glu Ile Lys Ala Ile
145 150 155 160

Phe Pro Asn Gly Gln Phe Gln Gly Asp Asn Phe Arg Ile Thr Lys Ala
 165 170 175

Asp Ala Ala Glu Phe Trp Arg Lys Phe Phe Gly Asp Lys Thr Ile Val
 180 185 190

Pro Trp Lys Val Phe Arg Gln Cys Leu His Glu Val His Gln Ile Ser
 195 200 205

Ser Gly Leu Glu Ala Met Ala Leu Lys Ser Thr Ile Asp Leu Thr Cys
 210 215 220

Asn Asp Tyr Ile Ser Val Phe Glu Phe Asp Ile Phe Thr Arg Leu Phe
 225 230 235 240

Gln Pro Trp Gly Ser Ile Leu Arg Asn Trp Asn Phe Leu Ala Val Thr
 245 250 255

His Pro Gly Tyr Met Ala Phe Leu Thr Tyr Asp Glu Val Lys Ala Arg
 260 265 270

Leu Gln Lys Tyr Ser Thr Lys Pro Gly Ser Tyr Ile Phe Arg Leu Ser
 275 280 285

Cys Thr Arg Leu Gly Gln Trp Ala Ile Gly Tyr Val Thr Gly Asp Gly
 290 295 300

Asn Ile Leu Gln Thr Ile Pro His Asn Lys Pro Leu Phe Gln Ala Leu
 305 310 315 320

Ile Asp Gly Ser Arg Glu Gly Phe Tyr Leu Tyr Pro Asp Gly Arg Ser
 325 330 335

Tyr Asn Pro Asp Leu Thr Gly Leu Cys Glu Pro Thr Pro His Asp His
 340 345 350

Ile Lys Val Thr Gln Glu Gln Tyr Glu Leu Tyr Cys Glu Met Gly Ser
 355 360 365

Thr Phe Gln Leu Cys Lys Ile Cys Ala Glu Asn Asp Lys Asp Val Lys
 370 375 380

Ile Glu Pro Cys Gly His Leu Met Cys Thr Ser Cys Leu Thr Ala Trp
 385 390 395 400

Gln Glu Ser Asp Gly Gln Gly Pro Phe Cys Arg Cys Glu Ile Lys

405

410

415

Gly Thr Glu Pro Ile Ile Val Asp Pro Phe Asp Pro Arg Asp Glu Gly
420 425 430

Ser Arg Cys Cys Ser Ile Ile Asp Pro Phe Gly Met Pro Met Leu Asp
435 440 445

Leu Asp Asp Asp Asp Asp Arg Glu Glu Ser Leu Met Met Asn Arg Leu
450 455 460

Ala Asn Val Arg Lys Cys Thr Asp Arg Gln Asn Ser Pro Val Thr Ser
465 470 475 480

Pro Gly Ser Ser Pro Leu Ala Gln Arg Arg Lys Pro Gln Pro Asp Pro
485 490 495

Leu Gln Ile Pro His Leu Ser Leu Pro Pro Val Pro Pro Arg Leu Asp
500 505 510

Leu Ile Gln Lys Gly Ile Val Arg Ser Pro Cys Gly Ser Pro Thr Gly
515 520 525

Ser Pro Lys Ser Ser Pro Cys Met Val Arg Lys Gln Asp Lys Pro Leu
530 535 540

Pro Ala Pro Pro Pro Pro Leu Arg Asp Pro Pro Pro Pro Pro Pro Glu
545 550 555 560

Arg Pro Pro Pro Ile Pro Pro Asp Asn Arg Leu Ser Arg His Ile His
565 570 575

His Val Glu Ser Val Pro Ser Lys Asp Pro Pro Met Pro Leu Glu Ala
580 585 590

Trp Cys Pro Arg Asp Val Phe Gly Thr Asn Gln Leu Val Gly Cys Arg
595 600 605

Leu Leu Gly Glu Gly Ser Pro Lys Pro Gly Ile Thr Ala Ser Ser Asn
610 615 620

Val Asn Gly Arg His Ser Arg Val Gly Ser Asp Pro Val Leu Met Arg
625 630 635 640

Lys His Arg Arg His Asp Leu Pro Leu Glu Gly Ala Lys Val Phe Ser
645 650 655

\

Asn Gly His Leu Gly Ser Glu Glu Tyr Asp Val Pro Pro Arg Leu Ser
660 665 670

Pro Pro Pro Pro Val Thr Thr Leu Leu Pro Ser Ile Lys Cys Thr Gly
675 680 685

Pro Leu Ala Asn Ser Leu Ser Glu Lys Thr Arg Asp Pro Val Glu Glu
690 695 700

Asp Asp Asp Glu Tyr Lys Ile Pro Ser Ser His Pro Val Ser Leu Asn
705 710 715 720

Ser Gln Pro Ser His Cys His Asn Val Lys Pro Pro Val Arg Ser Cys
725 730 735

Asp Asn Gly His Cys Met Leu Asn Gly Thr His Gly Pro Ser Ser Glu
740 745 750

Lys Lys Ser Asn Ile Pro Asp Leu Ser Ile Tyr Leu Lys Gly Asp Val
755 760 765

Phe Asp Ser Ala Ser Asp Pro Val Pro Leu Pro Pro Ala Arg Pro Pro
770 775 780

Thr Arg Asp Asn Pro Lys His Gly Ser Ser Leu Asn Arg Thr Pro Ser
785 790 795 800

Asp Tyr Asp Leu Leu Ile Pro Pro Leu Gly Glu Asp Ala Phe Asp Ala
805 810 815

Leu Pro Pro Ser Leu Pro Pro Pro Pro Pro Ala Arg His Ser Leu
820 825 830

Ile Glu His Ser Lys Pro Pro Gly Ser Ser Ser Arg Pro Ser Ser Gly
835 840 845

Gln Asp Leu Phe Leu Leu Pro Ser Asp Pro Phe Val Asp Leu Ala Ser
850 855 860

Gly Gln Val Pro Leu Pro Pro Ala Arg Arg Leu Pro Gly Glu Asn Val
865 870 875 880

Lys Thr Asn Arg Thr Ser Gln Asp Tyr Asp Gln Leu Pro Ser Cys Ser
885 890 895

Asp Gly Ser Gln Ala Pro Ala Arg Pro Pro Lys Pro Arg Pro Arg Arg
 900 905 910

Thr Ala Pro Glu Ile His His Arg Lys Pro His Gly Pro Glu Ala Ala
 915 920 925

Leu Glu Asn Val Asp Ala Lys Ile Ala Lys Leu Met Gly Glu Gly Tyr
 930 935 940

Ala Phe Glu Glu Val Lys Arg Ala Leu Glu Ile Ala Gln Asn Asn Val
 945 950 955 960

Glu Val Ala Arg Ser Ile Leu Arg Glu Phe Ala Phe Pro Pro Pro Val
 965 970 975

Ser Pro Arg Leu Asn Leu
 980

<210> 2412

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2412

Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr
 1 5 10 15

Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala Arg Leu
 20 25 30

Leu Pro Pro Leu Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn
 35 40 45

Met Leu Val Ile Leu Ile Leu Ile Asn Cys Lys Arg Leu Lys Ser Met
 50 55 60

Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Phe Phe Leu
 65 70 75 80

Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Ala Gln Trp Asp Phe
 85 90 95

Gly Asn Thr Met Cys Gln Leu Leu Thr Gly Leu Tyr Phe Ile Gly Phe
 100 105 110

Phe Ser Gly Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu

115

120

125

Ala Val Val His Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe
 130 135 140

Gly Val Val Thr Ser Val Ile Thr Trp Val Val Ala Val Phe Ala Ser
 145 150 155 160

Leu Pro Gly Ile Ile Phe Thr Arg Ser Gln Lys Glu Gly Leu His Tyr
 165 170 175

Thr Cys Ser Ser His Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn
 180 185 190

Phe Gln Thr Leu Lys Ile Val Ile Leu Gly Leu Val Leu Pro Leu Leu
 195 200 205

Val Met Val Ile Cys Tyr Ser Gly Ile Leu Lys Thr Leu Leu Arg Cys
 210 215 220

Arg Asn Glu Lys Lys Arg His Arg Ala Val Arg Leu Ile Phe Thr Ile
 225 230 235 240

Met Ile Val Tyr Phe Leu Phe Trp Ala Pro Tyr Asn Ile Val Leu Leu
 245 250 255

Leu Asn Thr Phe Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser
 260 265 270

Asn Arg Leu Asp Gln Ala Met Gln Val Thr Glu Thr Leu Gly Met Thr
 275 280 285

His Cys Cys Ile Asn Pro Ile Ile Tyr Ala Phe Val Gly Glu Lys Phe
 290 295 300

Arg Asn Tyr Leu Leu Val Phe Phe Gln Lys His Ile Ala Lys Arg Phe
 305 310 315 320

Cys Lys Cys Cys Ser Ile Phe Gln Gln Glu Ala Pro Glu Arg Ala Ser
 325 330 335

Ser Val Tyr Thr Arg Ser Thr Gly Glu Gln Glu Ile Ser Val Gly Leu
 340 345 350

<210> 2413
 <211> 750

<212> PRT

<213> Homo sapiens

<400> 2413

Met Gly Lys Ser Glu Ser Gln Met Asp Ile Thr Asp Ile Asn Thr Pro
1 5 10 15

Lys Pro Lys Lys Lys Gln Arg Trp Thr Arg Leu Glu Ile Ser Leu Ser
20 25 30

Val Leu Val Leu Leu Leu Thr Ile Ile Ala Val Arg Met Ile Ala Leu
35 40 45

Tyr Ala Thr Tyr Asp Asp Gly Ile Cys Lys Ser Ser Asp Cys Ile Lys
50 55 60

Ser Ala Ala Arg Leu Ile Gln Asn Met Asp Ala Thr Thr Glu Pro Cys
65 70 75 80

Arg Asp Phe Phe Lys Tyr Ala Cys Gly Gly Trp Leu Lys Arg Asn Val
85 90 95

Ile Pro Glu Thr Ser Ser Arg Tyr Gly Asn Phe Asp Ile Leu Arg Asp
100 105 110

Glu Leu Glu Val Val Leu Lys Asp Val Leu Gln Glu Pro Lys Thr Glu
115 120 125

Asp Ile Val Ala Val Gln Lys Ala Lys Ala Leu Tyr Arg Ser Cys Ile
130 135 140

Asn Glu Ser Ala Ile Asp Ser Arg Gly Gly Glu Pro Leu Leu Lys Leu
145 150 155 160

Leu Pro Asp Ile Tyr Gly Trp Pro Val Ala Thr Glu Asn Trp Glu Gln
165 170 175

Lys Tyr Gly Ala Ser Trp Thr Ala Glu Lys Ala Ile Ala Gln Leu Asn
180 185 190

Ser Lys Tyr Gly Lys Lys Val Leu Ile Asn Leu Phe Val Gly Thr Asp
195 200 205

Asp Lys Asn Ser Val Asn His Val Ile His Ile Asp Gln Pro Arg Leu
210 215 220

Gly Leu Pro Ser Arg Asp Tyr Tyr Glu Cys Thr Gly Ile Tyr Lys Glu
 225 230 235 240

Ala Cys Thr Ala Tyr Val Asp Phe Met Ile Ser Val Ala Arg Leu Ile
 245 250 255

Arg Gln Glu Glu Arg Leu Pro Ile Asp Glu Asn Gln Leu Ala Leu Glu
 260 265 270

Met Asn Lys Val Met Glu Leu Glu Lys Glu Ile Ala Asn Ala Thr Ala
 275 280 285

Lys Pro Glu Asp Arg Asn Asp Pro Met Leu Leu Tyr Asn Lys Met Arg
 290 295 300

Leu Ala Gln Ile Gln Asn Asn Phe Ser Leu Glu Ile Asn Gly Lys Pro
 305 310 315 320

Phe Ser Trp Leu Asn Phe Thr Asn Glu Ile Met Ser Thr Val Asn Ile
 325 330 335

Ser Ile Thr Asn Glu Glu Asp Val Val Tyr Ala Pro Glu Tyr Leu
 340 345 350

Thr Lys Leu Lys Pro Ile Leu Thr Lys Tyr Ser Ala Arg Asp Leu Gln
 355 360 365

Asn Leu Met Ser Trp Arg Phe Ile Met Asp Leu Val Ser Ser Leu Ser
 370 375 380

Arg Thr Tyr Lys Glu Ser Arg Asn Ala Phe Arg Lys Ala Leu Tyr Gly
 385 390 395 400

Thr Thr Ser Glu Thr Ala Thr Trp Arg Arg Cys Ala Asn Tyr Val Asn
 405 410 415

Gly Asn Met Glu Asn Ala Val Gly Arg Leu Tyr Val Glu Ala Ala Phe
 420 425 430

Ala Gly Glu Ser Lys His Val Val Glu Asp Leu Ile Ala Gln Ile Arg
 435 440 445

Glu Val Phe Ile Gln Thr Leu Asp Asp Leu Thr Trp Met Asp Ala Glu
 450 455 460

Thr Lys Lys Arg Ala Glu Glu Lys Ala Leu Ala Ile Lys Glu Arg Ile

465

470

475

480

Gly Tyr Pro Asp Asp Ile Val Ser Asn Asp Asn Lys Leu Asn Asn Glu
 485 490 495

Tyr Leu Glu Leu Asn Tyr Lys Glu Asp Glu Tyr Phe Glu Asn Ile Ile
 500 505 510

Gln Asn Leu Lys Phe Ser Gln Ser Lys Gln Leu Lys Lys Leu Arg Glu
 515 520 525

Lys Val Asp Lys Asp Glu Trp Ile Ser Gly Ala Ala Val Val Asn Ala
 530 535 540

Phe Tyr Ser Ser Gly Arg Asn Gln Ile Val Phe Pro Ala Gly Ile Leu
 545 550 555 560

Gln Pro Pro Phe Phe Ser Ala Gln Gln Ser Asn Ser Leu Asn Tyr Gly
 565 570 575

Gly Ile Gly Met Val Ile Gly His Glu Ile Thr His Gly Phe Asp Asp
 580 585 590

Asn Gly Arg Asn Phe Asn Lys Asp Gly Asp Leu Val Asp Trp Trp Thr
 595 600 605

Gln Gln Ser Ala Ser Asn Phe Lys Glu Gln Ser Gln Cys Met Val Tyr
 610 615 620

Gln Tyr Gly Asn Phe Ser Trp Asp Leu Ala Gly Gly Gln His Leu Asn
 625 630 635 640

Gly Ile Asn Thr Leu Gly Glu Asn Ile Ala Asp Asn Gly Gly Leu Gly
 645 650 655

Gln Ala Tyr Arg Ala Tyr Gln Asn Tyr Ile Lys Lys Asn Gly Glu Glu
 660 665 670

Lys Leu Leu Pro Gly Leu Asp Leu Asn His Lys Gln Leu Phe Phe Leu
 675 680 685

Asn Phe Ala Gln Val Trp Cys Gly Thr Tyr Arg Pro Glu Tyr Ala Val
 690 695 700

Asn Ser Ile Lys Thr Asp Val His Ser Pro Gly Asn Phe Arg Ile Ile
 705 710 715 720

Gly Thr Leu Gln Asn Ser Ala Glu Phe Ser Glu Ala Phe His Cys Arg
725 730 735

Lys Asn Ser Tyr Met Asn Pro Glu Lys Lys Cys Arg Val Trp
740 745 750

<210> 2414
<211> 233
<212> PRT
<213> *Homo sapiens*

<400> 2414

Met Asp Asn Gln Gly Val Ile Tyr Ser Asp Leu Asn Leu Pro Pro Asn
 1 5 10 15

Pro Lys Arg Gln Gln Arg Lys Pro Lys Gly Asn Lys Ser Ser Ile Leu
20 25 30

Ala Thr Glu Gln Glu Ile Thr Tyr Ala Glu Leu Asn Leu Gln Lys Ala
35 40 45

Ser Gln Asp Phe Gln Gly Asn Asp Lys Thr Tyr His Cys Lys Asp Leu
50 55 60

Pro Ser Ala Pro Glu Lys Leu Ile Val Gly Ile Leu Gly Ile Ile Cys
 65 70 75 80

Leu Ile Leu Met Ala Ser Val Val Thr Ile Val Val Ile Pro Ser Thr
85 90 95

Leu Ile Gln Arg His Asn Asn Ser Ser Leu Asn Thr Arg Thr Gln Lys
100 105 110

Ala Arg His Cys Gly His Cys Pro Glu Glu Trp Ile Thr Tyr Ser Asn
115 120 125

Ser Cys Tyr Tyr Ile Gly Lys Glu Arg Arg Thr Trp Glu Glu Ser Leu
 130 135 140

Leu Ala Cys Thr Ser Lys Asn Ser Ser Leu Leu Ser Ile Asp Asn Glu
145 150 155 160

Glu Glu Met Lys Phe Leu Ser Ile Ile Ser Pro Ser Ser Trp Ile Gly
165 170 175

Val Phe Arg Asn Ser Ser His His Pro Trp Val Thr Met Asn Gly Leu
 180 185 190

Ala Phe Lys His Glu Ile Lys Asp Ser Asp Asn Ala Glu Leu Asn Cys
 195 200 205

Ala Val Leu Gln Val Asn Arg Leu Lys Ser Ala Gln Cys Gly Ser Ser
 210 215 220

Ile Ile Tyr His Cys Lys His Lys Leu
 225 230

<210> 2415
<211> 290
<212> PRT
<213> Homo sapiens

<400> 2415

Met Gly Gly Gly Ala Gly Glu Arg Leu Phe Thr Ser Ser Cys Leu Val
 1 5 10 15

Gly Leu Val Pro Leu Gly Leu Arg Ile Ser Leu Val Thr Cys Pro Leu
 20 25 30

Gln Cys Gly Ile Met Trp Gln Leu Leu Leu Pro Thr Ala Leu Leu Leu
 35 40 45

Leu Val Ser Ala Gly Met Arg Thr Glu Asp Leu Pro Lys Ala Val Val
 50 55 60

Phe Leu Glu Pro Gln Trp Tyr Arg Val Leu Glu Lys Asp Ser Val Thr
 65 70 75 80

Leu Lys Cys Gln Gly Ala Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp
 85 90 95

Phe His Asn Glu Ser Leu Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile
 100 105 110

Asp Ala Ala Thr Val Asp Asp Ser Gly Glu Tyr Arg Cys Gln Thr Asn
 115 120 125

Leu Ser Thr Leu Ser Asp Pro Val Gln Leu Glu Val His Ile Gly Trp
 130 135 140

Leu Leu Leu Gln Ala Pro Arg Trp Val Phe Lys Glu Glu Asp Pro Ile
 145 150 155 160

His Leu Arg Cys His Ser Trp Lys Asn Thr Ala Leu His Lys Val Thr
165 170 175

Tyr Leu Gln Asn Gly Lys Gly Arg Lys Tyr Phe His His Asn Ser Asp
 180 185 190

Phe Tyr Ile Pro Lys Ala Thr Leu Lys Asp Ser Gly Ser Tyr Phe Cys
 195 200 205

Arg Gly Leu Val Gly Ser Lys Asn Val Ser Ser Glu Thr Val Asn Ile
210 215 220

Thr Ile Thr Gln Gly Leu Ala Val Ser Thr Ile Ser Ser Phe Phe Pro
225 230 235 240

Pro Gly Tyr Gln Val Ser Phe Cys Leu Val Met Val Leu Leu Phe Ala
245 250 255

Val Asp Thr Gly Leu Tyr Phe Ser Val Lys Thr Asn Ile Arg Ser Ser
260 265 270

Thr Arg Asp Trp Lys Asp His Lys Phe Lys Trp Arg Lys Asp Pro Gln
275 280 285

Asp Lys
290

<210> 2416
<211> 233
<212> PRT
<213> *Homo sapiens*

<400> 2416

Met Trp Gln Leu Leu Leu Pro Thr Ala Leu Leu Leu Leu Val Ser Ala
 1 5 10 15

Gly Met Arg Thr Glu Asp Leu Pro Lys Ala Val Val Phe Leu Glu Pro
20 25 30

Gln Trp Tyr Ser Val Leu Glu Lys Asp Ser Val Thr Leu Lys Cys Gln
35 40 45

Gly Ala Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp Phe His Asn Glu
50 55 60

Ser Leu Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile Asp Ala Ala Thr
 65 70 75 80

Val Asn Asp Ser Gly Glu Tyr Arg Cys Gln Thr Asn Leu Ser Thr Leu
 85 90 95

Ser Asp Pro Val Gln Leu Glu Val His Ile Gly Trp Leu Leu Leu Gln
 100 105 110

Ala Pro Arg Trp Val Phe Lys Glu Glu Asp Pro Ile His Leu Arg Cys
 115 120 125

His Ser Trp Lys Asn Thr Ala Leu His Lys Val Thr Tyr Leu Gln Asn
 130 135 140

Gly Lys Asp Arg Lys Tyr Phe His His Asn Ser Asp Phe His Ile Pro
 145 150 155 160

Lys Ala Thr Leu Lys Asp Ser Gly Ser Tyr Phe Cys Arg Gly Leu Val
 165 170 175

Gly Ser Lys Asn Val Ser Ser Glu Thr Val Asn Ile Thr Ile Thr Gln
 180 185 190

Gly Leu Ala Val Ser Thr Ile Ser Ser Phe Ser Pro Pro Gly Tyr Gln
 195 200 205

Val Ser Phe Cys Leu Val Met Val Leu Leu Phe Ala Val Asp Thr Gly
 210 215 220

Leu Tyr Phe Ser Val Lys Thr Asn Ile
 225 230

<210> 2417

<211> 525

<212> PRT

<213> Homo sapiens

<400> 2417

Met Trp Glu Ala Gln Phe Leu Gly Leu Leu Phe Leu Gln Pro Leu Trp
 1 5 10 15

Val Ala Pro Val Lys Pro Leu Gln Pro Gly Ala Glu Val Pro Val Val
 20 25 30

Trp Ala Gln Glu Gly Ala Pro Ala Gln Leu Pro Cys Ser Pro Thr Ile
 35 40 45

Pro Leu Gln Asp Leu Ser Leu Leu Arg Arg Ala Gly Val Thr Trp Gln
 50 55 60

His Gln Pro Asp Ser Gly Pro Pro Ala Ala Ala Pro Gly His Pro Leu
 65 70 75 80

Ala Pro Gly Pro His Pro Ala Ala Pro Ser Ser Trp Gly Pro Arg Pro
 85 90 95

Arg Arg Tyr Thr Val Leu Ser Val Gly Pro Gly Gly Leu Arg Ser Gly
 100 105 110

Arg Leu Pro Leu Gln Pro Arg Val Gln Leu Asp Glu Arg Gly Arg Gln
 115 120 125

Arg Gly Asp Phe Ser Leu Trp Leu Arg Pro Ala Arg Arg Ala Asp Ala
 130 135 140

Gly Glu Tyr Arg Ala Ala Val His Leu Arg Asp Arg Ala Leu Ser Cys
 145 150 155 160

Arg Leu Arg Leu Arg Leu Gly Gln Ala Ser Met Thr Ala Ser Pro Pro
 165 170 175

Gly Ser Leu Arg Ala Ser Asp Trp Val Ile Leu Asn Cys Ser Phe Ser
 180 185 190

Arg Pro Asp Arg Pro Ala Ser Val His Trp Phe Arg Asn Arg Gly Gln
 195 200 205

Gly Arg Val Pro Val Arg Glu Ser Pro His His His Leu Ala Glu Ser
 210 215 220

Phe Leu Phe Leu Pro Gln Val Ser Pro Met Asp Ser Gly Pro Trp Gly
 225 230 235 240

Cys Ile Leu Thr Tyr Arg Asp Gly Phe Asn Val Ser Ile Met Tyr Asn
 245 250 255

Leu Thr Val Leu Gly Leu Glu Pro Pro Thr Pro Leu Thr Val Tyr Ala
 260 265 270

Gly Ala Gly Ser Arg Val Gly Leu Pro Cys Arg Leu Pro Ala Gly Val
 275 280 285

Gly Thr Arg Ser Phe Leu Thr Ala Lys Trp Thr Pro Pro Gly Gly Gly
 290 295 300

Pro Asp Leu Leu Val Thr Gly Asp Asn Gly Asp Phe Thr Leu Arg Leu
 305 310 315 320

Glu Asp Val Ser Gln Ala Gln Ala Gly Thr Tyr Thr Cys His Ile His
 325 330 335

Leu Gln Glu Gln Gln Leu Asn Ala Thr Val Thr Leu Ala Ile Ile Thr
 340 345 350

Val Thr Pro Lys Ser Phe Gly Ser Pro Gly Ser Leu Gly Lys Leu Leu
 355 360 365

Cys Glu Val Thr Pro Val Ser Gly Gln Glu Arg Phe Val Trp Ser Ser
 370 375 380

Leu Asp Thr Pro Ser Gln Arg Ser Phe Ser Gly Pro Trp Leu Glu Ala
 385 390 395 400

Gln Glu Ala Gln Leu Leu Ser Gln Pro Trp Gln Cys Gln Leu Tyr Gln
 405 410 415

Gly Glu Arg Leu Leu Gly Ala Ala Val Tyr Phe Thr Glu Leu Ser Ser
 420 425 430

Pro Gly Ala Gln Arg Ser Gly Arg Ala Pro Gly Ala Leu Pro Ala Gly
 435 440 445

His Leu Leu Leu Phe Leu Thr Leu Gly Val Leu Ser Leu Leu Leu
 450 455 460

Val Thr Gly Ala Phe Gly Phe His Leu Trp Arg Arg Gln Trp Arg Pro
 465 470 475 480

Arg Arg Phe Ser Ala Leu Glu Gln Gly Ile His Pro Pro Gln Ala Gln
 485 490 495

Ser Lys Ile Glu Glu Leu Glu Gln Glu Pro Glu Pro Glu Pro Glu Pro
 500 505 510

Glu Pro Glu Pro Glu Pro Glu Pro Glu Pro Glu Gln Leu
 515 520 525

<210> 2418

<211> 738

<212> PRT

<213> Homo sapiens

<400> 2418

Met Gln Pro Arg Trp Ala Gln Gly Ala Thr Met Trp Leu Gly Val Leu
1 5 10 15

Leu Thr Leu Leu Cys Ser Ser Leu Glu Gly Gln Glu Asn Ser Phe
20 25 30

Thr Ile Asn Ser Val Asp Met Lys Ser Leu Pro Asp Trp Thr Val Gln
35 40 45

Asn Gly Lys Asn Leu Thr Leu Gln Cys Phe Ala Asp Val Ser Thr Thr
50 55 60

Ser His Val Lys Pro Gln His Gln Met Leu Phe Tyr Lys Asp Asp Val
65 70 75 80

Leu Phe Tyr Asn Ile Ser Ser Met Lys Ser Thr Glu Ser Tyr Phe Ile
85 90 95

Pro Glu Val Arg Ile Tyr Asp Ser Gly Thr Tyr Lys Cys Thr Val Ile
100 105 110

Val Asn Asn Lys Glu Lys Thr Thr Ala Glu Tyr Gln Val Leu Val Glu
115 120 125

Gly Val Pro Ser Pro Arg Val Thr Leu Asp Lys Lys Glu Ala Ile Gln
130 135 140

Gly Gly Ile Val Arg Val Asn Cys Ser Val Pro Glu Glu Lys Ala Pro
145 150 155 160

Ile His Phe Thr Ile Glu Lys Leu Glu Leu Asn Glu Lys Met Val Lys
165 170 175

Leu Lys Arg Glu Lys Asn Ser Arg Asp Gln Asn Phe Val Ile Leu Glu
180 185 190

Phe Pro Val Glu Glu Gln Asp Arg Val Leu Ser Phe Arg Cys Gln Ala
195 200 205

Arg Ile Ile Ser Gly Ile His Met Gln Thr Ser Glu Ser Thr Lys Ser
210 215 220

Glu Leu Val Thr Val Thr Glu Ser Phe Ser Thr Pro Lys Phe His Ile
225 230 235 240

Ser Pro Thr Gly Met Ile Met Glu Gly Ala Gln Leu His Ile Lys Cys
245 250 255

Thr Ile Gln Val Thr His Leu Ala Gln Glu Phe Pro Glu Ile Ile Ile
260 265 270

Gln Lys Asp Lys Ala Ile Val Ala His Asn Arg His Gly Asn Lys Ala
275 280 285

Val Tyr Ser Val Met Ala Met Val Glu His Ser Gly Asn Tyr Thr Cys
290 295 300

Lys Val Glu Ser Ser Arg Ile Ser Lys Val Ser Ser Ile Val Val Asn
305 310 315 320

Ile Thr Glu Leu Phe Ser Lys Pro Glu Leu Glu Ser Ser Phe Thr His
325 330 335

Leu Asp Gln Gly Glu Arg Leu Asn Leu Ser Cys Ser Ile Pro Gly Ala
340 345 350

Pro Pro Ala Asn Phe Thr Ile Gln Lys Glu Asp Thr Ile Val Ser Gln
355 360 365

Thr Gln Asp Phe Thr Lys Ile Ala Ser Lys Ser Asp Ser Gly Thr Tyr
370 375 380

Ile Cys Thr Ala Gly Ile Asp Lys Val Val Lys Lys Ser Asn Thr Val
385 390 395 400

Gln Ile Val Val Cys Glu Met Leu Ser Gln Pro Arg Ile Ser Tyr Asp
405 410 415

Ala Gln Phe Glu Val Ile Lys Gly Gln Thr Ile Glu Val Arg Cys Glu
420 425 430

Ser Ile Ser Gly Thr Leu Pro Ile Ser Tyr Gln Leu Leu Lys Thr Ser
435 440 445

Lys Val Leu Glu Asn Ser Thr Lys Asn Ser Asn Asp Pro Ala Val Phe
450 455 460

Lys Asp Asn Pro Thr Glu Asp Val Glu Tyr Gln Cys Val Ala Asp Asn
465 470 475 480

Cys His Ser His Ala Lys Met Leu Ser Glu Val Leu Arg Val Lys Val
485 490 495

Ile Ala Pro Val Asp Glu Val Gln Ile Ser Ile Leu Ser Ser Lys Val
500 505 510

Val Glu Ser Gly Glu Asp Ile Val Leu Gln Cys Ala Val Asn Glu Gly
515 520 525

Ser Gly Pro Ile Thr Tyr Lys Phe Tyr Arg Glu Lys Glu Gly Lys Pro
530 535 540

Phe Tyr Gln Met Thr Ser Asn Ala Thr Gln Ala Phe Trp Thr Lys Gln
545 550 555 560

Lys Ala Asn Lys Glu Gln Glu Gly Glu Tyr Tyr Cys Thr Ala Phe Asn
565 570 575

Arg Ala Asn His Ala Ser Ser Val Pro Arg Ser Lys Ile Leu Thr Val
580 585 590

Arg Val Ile Leu Ala Pro Trp Lys Lys Gly Leu Ile Ala Val Val Ile
595 600 605

Ile Gly Val Ile Ile Ala Leu Leu Ile Ala Ala Lys Cys Tyr Phe
610 615 620

Leu Arg Lys Ala Lys Ala Lys Gln Met Pro Val Glu Met Ser Arg Pro
625 630 635 640

Ala Val Pro Leu Leu Asn Ser Asn Asn Glu Lys Met Ser Asp Pro Asn
645 650 655

Met Glu Ala Asn Ser His Tyr Gly His Asn Asp Asp Val Gly Asn His
660 665 670

Ala Met Lys Pro Ile Asn Asp Asn Lys Glu Pro Leu Asn Ser Asp Val
675 680 685

Gln Tyr Thr Glu Val Gln Val Ser Ser Ala Glu Ser His Lys Asp Leu
690 695 700

Gly	Lys	Lys	Asp	Thr	Glu	Thr	Val	Tyr	Ser	Glu	Val	Arg	Lys	Ala	Val
705					710					715					720

Pro	Asp	Ala	Val	Glu	Ser	Arg	Tyr	Ser	Arg	Thr	Glu	Gly	Ser	Leu	Asp
										730					735

Gly Thr

<210>	2419
<211>	328
<212>	PRT
<213>	Homo sapiens

<400> 2419

Met	Leu	Val	Arg	Arg	Gly	Ala	Arg	Ala	Gly	Pro	Arg	Met	Pro	Arg	Gly
1					5				10					15	

Trp	Thr	Ala	Leu	Cys	Leu	Leu	Ser	Leu	Leu	Pro	Ser	Gly	Phe	Met	Ser
					20				25					30	

Leu	Asp	Asn	Asn	Gly	Thr	Ala	Thr	Pro	Glu	Leu	Pro	Thr	Gln	Gly	Thr
					35				40				45		

Phe	Ser	Asn	Val	Ser	Thr	Asn	Val	Ser	Tyr	Gln	Glu	Thr	Thr	Thr	Pro
					50				55					60	

Ser	Thr	Leu	Gly	Ser	Thr	Ser	Leu	His	Pro	Val	Ser	Gln	His	Gly	Asn
					65				70			75		80	

Glu	Ala	Thr	Thr	Asn	Ile	Thr	Glu	Thr	Thr	Val	Lys	Phe	Thr	Ser	Thr
					85				90				95		

Ser	Val	Ile	Thr	Ser	Val	Tyr	Gly	Asn	Thr	Asn	Ser	Ser	Val	Gln	Ser
					100				105				110		

Gln	Thr	Ser	Val	Ile	Ser	Thr	Val	Phe	Thr	Thr	Pro	Ala	Asn	Val	Ser
					115				120				125		

Thr	Pro	Glu	Thr	Thr	Leu	Lys	Pro	Ser	Leu	Ser	Pro	Gly	Asn	Val	Ser
					130				135			140			

Asp	Leu	Ser	Thr	Thr	Ser	Thr	Ser	Leu	Ala	Thr	Ser	Pro	Thr	Lys	Pro
					145				150			155		160	

Tyr	Thr	Ser	Ser	Ser	Pro	Ile	Leu	Ser	Asp	Ile	Lys	Ala	Glu	Ile	Lys
					165				170			175			

Cys Ser Gly Ile Arg Glu Val Lys Leu Thr Gln Gly Ile Cys Leu Glu
 180 185 190

Gln Asn Lys Thr Ser Ser Cys Ala Glu Phe Lys Lys Asp Arg Gly Glu
195 200 205

Gly Leu Ala Arg Val Leu Cys Gly Glu Glu Gln Ala Asp Ala Asp Ala
210 215 220

Gly Ala Gln Val Cys Ser Leu Leu Leu Ala Gln Ser Glu Val Val Arg Pro
225 230 235 240

Gln Cys Leu Leu Leu Val Leu Ala Asn Arg Thr Glu Ile Ser Ser Lys
245 250 255

Leu Gln Leu Met Lys Lys His Gln Ser Asp Leu Lys Lys Leu Gly Ile
260 265 270

Leu Asp Phe Thr Glu Gln Asp Val Ala Ser His Gln Ser Tyr Ser Gln
275 280 285

Lys Thr Leu Ile Ala Leu Val Thr Ser Gly Ala Leu Leu Ala Val Leu
290 295 300

Gly Ile Thr Gly Tyr Phe Leu Met Asn Arg Arg Ser Trp Ser Pro Thr
305 310 315

Gly Glu Arg Leu Glu Leu Glu Pro
325

<210> 3430

<210> 2420
<211> 374

$\langle 211 \rangle$ BPT

<212> PRT

1400-2433

Met Trp Phe Leu Thr Thr Leu Leu Leu Trp Val Pro Val Asp Gly Gln
 1 5 10

Val Asp Thr Thr Lys Ala Val Ile Thr Leu Gln Pro Pro Trp Val Ser
20 25

Val Phe Gln Glu Glu Thr Val Thr Leu His Cys Glu Val Leu His Leu
35 40 45

Pro Gly Ser Ser Ser Thr Trp Phe Leu Asn Gly Thr Ala Thr Gln
 50 55 60

Thr Ser Thr Pro Ser Tyr Arg Ile Thr Ser Ala Ser Val Asn Asp Ser
 65 70 75 80

Gly Glu Tyr Arg Cys Gln Arg Gly Leu Ser Gly Arg Ser Asp Pro Ile
 85 90 95

Gln Leu Glu Ile His Arg Gly Trp Leu Leu Leu Gln Val Ser Ser Arg
 100 105 110

Val Phe Thr Glu Gly Glu Pro Leu Ala Leu Arg Cys His Ala Trp Lys
 115 120 125

Asp Lys Leu Val Tyr Asn Val Leu Tyr Tyr Arg Asn Gly Lys Ala Phe
 130 135 140

Lys Phe Phe His Trp Asn Ser Asn Leu Thr Ile Leu Lys Thr Asn Ile
 145 150 155 160

Ser His Asn Gly Thr Tyr His Cys Ser Gly Met Gly Lys His Arg Tyr
 165 170 175

Thr Ser Ala Gly Ile Ser Val Thr Val Lys Glu Leu Phe Pro Ala Pro
 180 185 190

Val Leu Asn Ala Ser Val Thr Ser Pro Leu Leu Glu Gly Asn Leu Val
 195 200 205

Thr Leu Ser Cys Glu Thr Lys Leu Leu Leu Gln Arg Pro Gly Leu Gln
 210 215 220

Leu Tyr Phe Ser Phe Tyr Met Gly Ser Lys Thr Leu Arg Gly Arg Asn
 225 230 235 240

Thr Ser Ser Glu Tyr Gln Ile Leu Thr Ala Arg Arg Glu Asp Ser Gly
 245 250 255

Leu Tyr Trp Cys Glu Ala Ala Thr Glu Asp Gly Asn Val Leu Lys Arg
 260 265 270

Ser Pro Glu Leu Glu Leu Gln Val Leu Gly Leu Gln Leu Pro Thr Pro
 275 280 285

Val Trp Phe His Val Leu Phe Tyr Leu Ala Val Gly Ile Met Phe Leu

290

295

300

Val Asn Thr Val Leu Trp Val Thr Ile Arg Lys Glu Leu Lys Arg Lys
305 310 315 320

Lys Lys Trp Asp Leu Glu Ile Ser Leu Asp Ser Gly His Glu Lys Lys
325 330 335

Val Ile Ser Ser Leu Gln Glu Asp Arg His Leu Glu Glu Glu Leu Lys
340 345 350

Cys Gln Glu Gln Lys Glu Glu Gln Leu Gln Glu Gly Val His Arg Lys
355 360 365

Glu Pro Gln Gly Ala Thr
370

<210> 2421

<211> 760

<212> PRT

<213> Homo sapiens

<400> 2421

Met Met Asp Gln Ala Arg Ser Ala Phe Ser Asn Leu Phe Gly Gly Glu
1 5 10 15

Pro Leu Ser Tyr Thr Arg Phe Ser Leu Ala Arg Gln Val Asp Gly Asp
20 25 30

Asn Ser His Val Glu Met Lys Leu Ala Val Asp Glu Glu Glu Asn Ala
35 40 45

Asp Asn Asn Thr Lys Ala Asn Val Thr Lys Pro Lys Arg Cys Ser Gly
50 55 60

Ser Ile Cys Tyr Gly Thr Ile Ala Val Ile Val Phe Phe Leu Ile Gly
65 70 75 80

Phe Met Ile Gly Tyr Leu Gly Tyr Cys Lys Gly Val Glu Pro Lys Thr
85 90 95

Glu Cys Glu Arg Leu Ala Gly Thr Glu Ser Pro Val Arg Glu Glu Pro
100 105 110

Gly Glu Asp Phe Pro Ala Ala Arg Arg Leu Tyr Trp Asp Asp Leu Lys
115 120 125

Arg Lys Leu Ser Glu Lys Leu Asp Ser Thr Asp Phe Thr Ser Thr Ile
130 135 140

Lys Leu Leu Asn Glu Asn Ser Tyr Val Pro Arg Glu Ala Gly Ser Gln
145 150 155 160

Lys Asp Glu Asn Leu Ala Leu Tyr Val Glu Asn Gln Phe Arg Glu Phe
165 170 175

Lys Leu Ser Lys Val Trp Arg Asp Gln His Phe Val Lys Ile Gln Val
180 185 190

Lys Asp Ser Ala Gln Asn Ser Val Ile Ile Val Asp Lys Asn Gly Arg
195 200 205

Leu Val Tyr Leu Val Glu Asn Pro Gly Gly Tyr Val Ala Tyr Ser Lys
210 215 220

Ala Ala Thr Val Thr Gly Lys Leu Val His Ala Asn Phe Gly Thr Lys
225 230 235 240

Lys Asp Phe Glu Asp Leu Tyr Thr Pro Val Asn Gly Ser Ile Val Ile
245 250 255

Val Arg Ala Gly Lys Ile Thr Phe Ala Glu Lys Val Ala Asn Ala Glu
260 265 270

Ser Leu Asn Ala Ile Gly Val Leu Ile Tyr Met Asp Gln Thr Lys Phe
275 280 285

Pro Ile Val Asn Ala Glu Leu Ser Phe Phe Gly His Ala His Leu Gly
290 295 300

Thr Gly Asp Pro Tyr Thr Pro Gly Phe Pro Ser Phe Asn His Thr Gln
305 310 315 320

Phe Pro Pro Ser Arg Ser Ser Gly Leu Pro Asn Ile Pro Val Gln Thr
325 330 335

Ile Ser Arg Ala Ala Ala Glu Lys Leu Phe Gly Asn Met Glu Gly Asp
340 345 350

Cys Pro Ser Asp Trp Lys Thr Asp Ser Thr Cys Arg Met Val Thr Ser
355 360 365

Glu Ser Lys Asn Val Lys Leu Thr Val Ser Asn Val Leu Lys Glu Ile
 370 375 380

Lys Ile Leu Asn Ile Phe Gly Val Ile Lys Gly Phe Val Glu Pro Asp
 385 390 395 400

His Tyr Val Val Val Gly Ala Gln Arg Asp Ala Trp Gly Pro Gly Ala
 405 410 415

Ala Lys Ser Gly Val Gly Thr Ala Leu Leu Leu Lys Leu Ala Gln Met
 420 425 430

Phe Ser Asp Met Val Leu Lys Asp Gly Phe Gln Pro Ser Arg Ser Ile
 435 440 445

Ile Phe Ala Ser Trp Ser Ala Gly Asp Phe Gly Ser Val Gly Ala Thr
 450 455 460

Glu Trp Leu Glu Gly Tyr Leu Ser Ser Leu His Leu Lys Ala Phe Thr
 465 470 475 480

Tyr Ile Asn Leu Asp Lys Ala Val Leu Gly Thr Ser Asn Phe Lys Val
 485 490 495

Ser Ala Ser Pro Leu Leu Tyr Thr Leu Ile Glu Lys Thr Met Gln Asn
 500 505 510

Val Lys His Pro Val Thr Gly Gln Phe Leu Tyr Gln Asp Ser Asn Trp
 515 520 525

Ala Ser Lys Val Glu Lys Leu Thr Leu Asp Asn Ala Ala Phe Pro Phe
 530 535 540

Leu Ala Tyr Ser Gly Ile Pro Ala Val Ser Phe Cys Phe Cys Glu Asp
 545 550 555 560

Thr Asp Tyr Pro Tyr Leu Gly Thr Thr Met Asp Thr Tyr Lys Glu Leu
 565 570 575

Ile Glu Arg Ile Pro Glu Leu Asn Lys Val Ala Arg Ala Ala Glu
 580 585 590

Val Ala Gly Gln Phe Val Ile Lys Leu Thr His Asp Val Glu Leu Asn
 595 600 605

Leu Asp Tyr Glu Arg Tyr Asn Ser Gln Leu Leu Ser Phe Val Arg Asp

610

615

620

Leu Asn Gln Tyr Arg Ala Asp Ile Lys Glu Met Gly Leu Ser Leu Gln
625 630 635 640

Trp Leu Tyr Ser Ala Arg Gly Asp Phe Phe Arg Ala Thr Ser Arg Leu
645 650 655

Thr Thr Asp Phe Gly Asn Ala Glu Lys Thr Asp Arg Phe Val Met Lys
660 665 670

Lys Leu Asn Asp Arg Val Met Arg Val Glu Tyr His Phe Leu Ser Pro
675 680 685

Tyr Val Ser Pro Lys Glu Ser Pro Phe Arg His Val Phe Trp Gly Ser
690 695 700

Gly Ser His Thr Leu Pro Ala Leu Leu Glu Asn Leu Lys Leu Arg Lys
705 710 715 720

Gln Asn Asn Gly Ala Phe Asn Glu Thr Leu Phe Arg Asn Gln Leu Ala
725 730 735

Leu Ala Thr Trp Thr Ile Gln Gly Ala Ala Asn Ala Leu Ser Gly Asp
740 745 750

Val Trp Asp Ile Asp Asn Glu Phe
755 760

<210> 2422

<211> 247

<212> PRT

<213> Homo sapiens

<400> 2422

Met Leu Leu Leu Pro Leu Pro Leu Leu Leu Phe Leu Leu Cys Ser Arg
1 5 10 15

Ala Glu Ala Gly Glu Ile Ile Gly Gly Thr Glu Cys Lys Pro His Ser
20 25 30

Arg Pro Tyr Met Ala Tyr Leu Glu Ile Val Thr Ser Asn Gly Pro Ser
35 40 45

Lys Phe Cys Gly Gly Phe Leu Ile Arg Arg Asn Phe Val Leu Thr Ala
50 55 60

Ala His Cys Ala Gly Arg Ser Ile Thr Val Thr Leu Gly Ala His Asn
 65 70 75 80

Ile Thr Glu Glu Glu Asp Thr Trp Gln Lys Leu Glu Val Ile Lys Gln
 85 90 95

Phe Arg His Pro Lys Tyr Asn Thr Ser Thr Leu His His Asp Ile Met
 100 105 110

Leu Leu Lys Leu Lys Glu Lys Ala Ser Leu Thr Leu Ala Val Gly Thr
 115 120 125

Leu Pro Phe Pro Ser Gln Phe Asn Phe Val Pro Pro Gly Arg Met Cys
 130 135 140

Arg Val Ala Gly Trp Gly Arg Thr Gly Val Leu Lys Pro Gly Ser Asp
 145 150 155 160

Thr Leu Gln Glu Val Lys Leu Arg Leu Met Asp Pro Gln Ala Cys Ser
 165 170 175

His Phe Arg Asp Phe Asp His Asn Leu Gln Leu Cys Val Gly Asn Pro
 180 185 190

Arg Lys Thr Lys Ser Ala Phe Lys Gly Asp Ser Gly Gly Pro Leu Leu
 195 200 205

Cys Ala Gly Val Ala Gln Gly Ile Val Ser Tyr Gly Arg Ser Asp Ala
 210 215 220

Lys Pro Pro Ala Val Phe Thr Arg Ile Ser His Tyr Arg Pro Trp Ile
 225 230 235 240

Asn Gln Ile Leu Gln Ala Asn
 245

<210> 2423
 <211> 976
 <212> PRT
 <213> Homo sapiens

<400> 2423

Met Arg Gly Ala Arg Gly Ala Trp Asp Phe Leu Cys Val Leu Leu Leu
 1 5 10 15

Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Gly

20

25

30

Glu Pro Ser Pro Pro Ser Ile His Pro Gly Lys Ser Asp Leu Ile Val		
35	40	45

Arg Val Gly Asp Glu Ile Arg Leu Leu Cys Thr Asp Pro Gly Phe Val		
50	55	60

Lys Trp Thr Phe Glu Ile Leu Asp Glu Thr Asn Glu Asn Lys Gln Asn		
65	70	75
		80

Glu Trp Ile Thr Glu Lys Ala Glu Ala Thr Asn Thr Gly Lys Tyr Thr		
85	90	95

Cys Thr Asn Lys His Gly Leu Ser Asn Ser Ile Tyr Val Phe Val Arg		
100	105	110

Asp Pro Ala Lys Leu Phe Leu Val Asp Arg Ser Leu Tyr Gly Lys Glu		
115	120	125

Asp Asn Asp Thr Leu Val Arg Cys Pro Leu Thr Asp Pro Glu Val Thr		
130	135	140

Asn Tyr Ser Leu Lys Gly Cys Gln Gly Lys Pro Leu Pro Lys Asp Leu		
145	150	155
		160

Arg Phe Ile Pro Asp Pro Lys Ala Gly Ile Met Ile Lys Ser Val Lys		
165	170	175

Arg Ala Tyr His Arg Leu Cys Leu His Cys Ser Val Asp Gln Glu Gly		
180	185	190

Lys Ser Val Leu Ser Glu Lys Phe Ile Leu Lys Val Arg Pro Ala Phe		
195	200	205

Lys Ala Val Pro Val Val Ser Val Ser Lys Ala Ser Tyr Leu Leu Arg		
210	215	220

Glu Gly Glu Glu Phe Thr Val Thr Cys Thr Ile Lys Asp Val Ser Ser		
225	230	235
		240

Ser Val Tyr Ser Thr Trp Lys Arg Glu Asn Ser Gln Thr Lys Leu Gln		
245	250	255

Glu Lys Tyr Asn Ser Trp His His Gly Asp Phe Asn Tyr Glu Arg Gln		
260	265	270

Ala Thr Leu Thr Ile Ser Ser Ala Arg Val Asn Asp Ser Gly Val Phe
275 280 285

Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser Ala Asn Val Thr Thr Thr
290 295 300

Leu Glu Val Val Asp Lys Gly Phe Ile Asn Ile Phe Pro Met Ile Asn
305 310 315 320

Thr Thr Val Phe Val Asn Asp Gly Glu Asn Val Asp Leu Ile Val Glu
325 330 335

Tyr Glu Ala Phe Pro Lys Pro Glu His Gln Gln Trp Ile Tyr Met Asn
340 345 350

Arg Thr Phe Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu
355 360 365

Ser Asn Ile Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly
370 375 380

Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ser Asp Val Asn
385 390 395 400

Ala Ala Ile Ala Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu
405 410 415

Thr Tyr Asp Arg Leu Val Asn Gly Met Leu Gln Cys Val Ala Ala Gly
420 425 430

Phe Pro Glu Pro Thr Ile Asp Trp Tyr Phe Cys Pro Gly Thr Glu Gln
435 440 445

Arg Cys Ser Ala Ser Val Leu Pro Val Asp Val Gln Thr Leu Asn Ser
450 455 460

Ser Gly Pro Pro Phe Gly Lys Leu Val Val Gln Ser Ser Ile Asp Ser
465 470 475 480

Ser Ala Phe Lys His Asn Gly Thr Val Glu Cys Lys Ala Tyr Asn Asp
485 490 495

Val Gly Lys Thr Ser Ala Tyr Phe Asn Phe Ala Phe Lys Gly Asn Asn
500 505 510

Lys Glu Gln Ile His Pro His Thr Leu Phe Thr Pro Leu Leu Ile Gly
 515 520 525

Phe Val Ile Val Ala Gly Met Met Cys Ile Ile Val Met Ile Leu Thr
 530 535 540

Tyr Lys Tyr Leu Gln Lys Pro Met Tyr Glu Val Gln Trp Lys Val Val
 545 550 555 560

Glu Glu Ile Asn Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr Gln Leu
 565 570 575

Pro Tyr Asp His Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly
 580 585 590

Lys Thr Leu Gly Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala
 595 600 605

Tyr Gly Leu Ile Lys Ser Asp Ala Ala Met Thr Val Ala Val Lys Met
 610 615 620

Leu Lys Pro Ser Ala His Leu Thr Glu Arg Glu Ala Leu Met Ser Glu
 625 630 635 640

Leu Lys Val Leu Ser Tyr Leu Gly Asn His Met Asn Ile Val Asn Leu
 645 650 655

Leu Gly Ala Cys Thr Ile Gly Gly Pro Thr Leu Val Ile Thr Glu Tyr
 660 665 670

Cys Cys Tyr Gly Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser
 675 680 685

Phe Ile Cys Ser Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys
 690 695 700

Asn Leu Leu His Ser Lys Glu Ser Ser Cys Ser Asp Ser Thr Asn Glu
 705 710 715 720

Tyr Met Asp Met Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala
 725 730 735

Asp Lys Arg Arg Ser Val Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val
 740 745 750

Thr Pro Ala Ile Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp
 755 760 765

Leu Leu Ser Phe Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala
 770 775 780

Ser Lys Asn Cys Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu
 785 790 795 800

Thr His Gly Arg Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp
 805 810 815

Ile Lys Asn Asp Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro
 820 825 830

Val Lys Trp Met Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe
 835 840 845

Glu Ser Asp Val Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser
 850 855 860

Leu Gly Ser Ser Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr
 865 870 875 880

Lys Met Ile Lys Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro
 885 890 895

Ala Glu Met Tyr Asp Ile Met Lys Thr Cys Trp Asp Ala Asp Pro Leu
 900 905 910

Lys Arg Pro Thr Phe Lys Gln Ile Val Gln Leu Ile Glu Lys Gln Ile
 915 920 925

Ser Glu Ser Thr Asn His Ile Tyr Ser Asn Leu Ala Asn Cys Ser Pro
 930 935 940

Asn Arg Gln Lys Pro Val Val Asp His Ser Val Arg Ile Asn Ser Val
 945 950 955 960

Gly Ser Thr Ala Ser Ser Ser Gln Pro Leu Leu Val His Asp Asp Val
 965 970 975

<210> 2424

<211> 635

<212> PRT

<213> Homo sapiens

<400> 2424

Met Pro Ser Trp Ala Leu Phe Met Val Thr Ser Cys Leu Leu Ala
1 5 10 15

Pro Gln Asn Leu Ala Gln Val Ser Ser Gln Asp Val Ser Leu Leu Ala
20 25 30

Ser Asp Ser Glu Pro Leu Lys Cys Phe Ser Arg Thr Phe Glu Asp Leu
35 40 45

Thr Cys Phe Trp Asp Glu Glu Glu Ala Ala Pro Ser Gly Thr Tyr Gln
50 55 60

Leu Leu Tyr Ala Tyr Pro Arg Glu Lys Pro Arg Ala Cys Pro Leu Ser
65 70 75 80

Ser Gln Ser Met Pro His Phe Gly Thr Arg Tyr Val Cys Gln Phe Pro
85 90 95

Asp Gln Glu Glu Val Arg Leu Phe Phe Pro Leu His Leu Trp Val Lys
100 105 110

Asn Val Phe Leu Asn Gln Thr Arg Thr Gln Arg Val Leu Phe Val Asp
115 120 125

Ser Val Gly Leu Pro Ala Pro Pro Ser Ile Ile Lys Ala Met Gly Gly
130 135 140

Ser Gln Pro Gly Glu Leu Gln Ile Ser Trp Glu Glu Pro Ala Pro Glu
145 150 155 160

Ile Ser Asp Phe Leu Arg Tyr Glu Leu Arg Tyr Gly Pro Arg Asp Pro
165 170 175

Lys Asn Ser Thr Gly Pro Thr Val Ile Gln Leu Ile Ala Thr Glu Thr
180 185 190

Cys Cys Pro Ala Leu Gln Arg Pro His Ser Ala Ser Ala Leu Asp Gln
195 200 205

Ser Pro Cys Ala Gln Pro Thr Met Pro Trp Gln Asp Gly Pro Lys Gln
210 215 220

Thr Ser Pro Ser Arg Glu Ala Ser Ala Leu Thr Ala Glu Gly Gly Ser
225 230 235 240

Cys Leu Ile Ser Gly Leu Gln Pro Gly Asn Ser Tyr Trp Leu Gln Leu
245 250 255

Arg Ser Glu Pro Asp Gly Ile Ser Leu Gly Gly Ser Trp Gly Ser Trp
260 265 270

Ser Leu Pro Val Thr Val Asp Leu Pro Gly Asp Ala Val Ala Leu Gly
275 280 285

Leu Gln Cys Phe Thr Leu Asp Leu Lys Asn Val Thr Cys Gln Trp Gln
290 295 300

Gln Gln Asp His Ala Ser Ser Gln Gly Phe Phe Tyr His Ser Arg Ala
305 310 315 320

Arg Cys Cys Pro Arg Asp Arg Tyr Pro Ile Trp Glu Asn Cys Glu Glu
325 330 335

Glu Glu Lys Thr Asn Pro Gly Leu Gln Thr Pro Gln Phe Ser Arg Cys
340 345 350

His Phe Lys Ser Arg Asn Asp Ser Ile Ile His Ile Leu Val Glu Val
355 360 365

Thr Thr Ala Pro Gly Thr Val His Ser Tyr Leu Gly Ser Pro Phe Trp
370 375 380

Ile His Gln Ala Val Arg Leu Pro Thr Pro Asn Leu His Trp Arg Glu
385 390 395 400

Ile Ser Ser Gly His Leu Glu Leu Glu Trp Gln His Pro Ser Ser Trp
405 410 415

Ala Ala Gln Glu Thr Cys Tyr Gln Leu Arg Tyr Thr Gly Glu Gly His
420 425 430

Gln Asp Trp Lys Val Leu Glu Pro Pro Leu Gly Ala Arg Gly Gly Thr
435 440 445

Leu Glu Leu Arg Pro Arg Ser Arg Tyr Arg Leu Gln Leu Arg Ala Arg
450 455 460

Leu Asn Gly Pro Thr Tyr Gln Gly Pro Trp Ser Ser Trp Ser Asp Pro
465 470 475 480

Thr Arg Val Glu Thr Ala Thr Glu Thr Ala Trp Ile Ser Leu Val Thr
 485 490 495

Ala Leu His Leu Val Leu Gly Leu Ser Ala Val Leu Gly Leu Leu Leu
 500 505 510

Leu Arg Trp Gln Phe Pro Ala His Tyr Arg Arg Leu Arg His Ala Leu
 515 520 525

Trp Pro Ser Leu Pro Asp Leu His Arg Val Leu Gly Gln Tyr Leu Arg
 530 535 540

Asp Thr Ala Ala Leu Ser Pro Pro Lys Ala Thr Val Ser Asp Thr Cys
 545 550 555 560

Glu Glu Val Glu Pro Ser Leu Leu Glu Ile Leu Pro Lys Ser Ser Glu
 565 570 575

Arg Thr Pro Leu Pro Leu Cys Ser Ser Gln Ala Gln Met Asp Tyr Arg
 580 585 590

Arg Leu Gln Pro Ser Cys Leu Gly Thr Met Pro Leu Ser Val Cys Pro
 595 600 605

Pro Met Ala Glu Ser Gly Ser Cys Cys Thr Thr His Ile Ala Asn His
 610 615 620

Ser Tyr Leu Pro Leu Ser Tyr Trp Gln Gln Pro
 625 630 635

<210> 2425

<211> 1006

<212> PRT

<213> Homo sapiens

<400> 2425

Met Val Cys Ser Leu Trp Val Leu Leu Val Ser Ser Val Leu Ala
 1 5 10 15

Leu Glu Glu Val Leu Leu Asp Thr Thr Gly Glu Thr Ser Glu Ile Gly
 20 25 30

Trp Leu Thr Tyr Pro Pro Gly Gly Trp Asp Glu Val Ser Val Leu Asp
 35 40 45

Asp Gln Arg Arg Leu Thr Arg Thr Phe Glu Ala Cys His Val Ala Gly
 50 55 60

Ala Pro Pro Gly Thr Gly Gln Asp Asn Trp Leu Gln Thr His Phe Val
65 70 75 80

Glu Arg Arg Gly Ala Gln Arg Ala His Ile Arg Leu His Phe Ser Val
85 90 95

Arg Ala Cys Ser Ser Leu Gly Val Ser Gly Gly Thr Cys Arg Glu Thr
100 105 110

Phe Thr Leu Tyr Tyr Arg Gln Ala Glu Glu Pro Asp Ser Pro Asp Ser
115 120 125

Val Ser Ser Trp His Leu Lys Arg Trp Thr Lys Val Asp Thr Ile Ala
130 135 140

Ala Asp Glu Ser Phe Pro Ser
145 150 155 160

Ser Ala Ala Trp Ala Val Gly Pro His Gly Ala Gly Gln Arg Ala Gly
165 170 175

Leu Gln Leu Asn Val Lys Glu Arg Ser Phe Gly Pro Leu Thr Gln Arg
180 185 190

Gly Phe Tyr Val Ala Phe Gln Asp Thr Gly Ala Cys Leu Ala Leu Val
195 200 205

Ala Val Arg Leu Phe Ser Tyr Thr Cys Pro Ala Val Leu Arg Ser Phe
210 215 220

Ala Ser Phe Pro Glu Thr Gln Ala Ser Gly Ala Gly Gly Ala Ser Leu
225 230 235 240

Val Ala Ala Val Gly Thr Cys Val Ala His Ala Glu Pro Glu Glu Asp
245 250 255

Gly Val Gly Gly Gln Ala Gly Gly Ser Pro Pro Arg Leu His Cys Asn
260 265 270

Gly Glu Gly Lys Trp Met Val Ala Val Gly Gly Cys Arg Cys Gln Pro
275 280 285

Gly Tyr Gln Pro Ala Arg Gly Asp Lys Ala Cys Gln Ala Cys Pro Arg
290 295 300

Gly Leu Tyr Lys Ser Ser Ala Gly Asn Ala Pro Cys Ser Pro Cys Pro
305 310 315 320

Ala Arg Ser His Ala Pro Asn Pro Ala Ala Pro Val Cys Pro Cys Leu
325 330 335

Glu Gly Phe Tyr Arg Ala Ser Ser Asp Pro Pro Glu Ala Pro Cys Thr
340 345 350

Gly Pro Pro Ser Ala Pro Gln Glu Leu Trp Phe Glu Val Gln Gly Ser
355 360 365

Ala Leu Met Leu His Trp Arg Leu Pro Arg Glu Leu Gly Gly Arg Gly
370 375 380

Asp Leu Leu Phe Asn Val Val Cys Lys Glu Cys Glu Gly Arg Gln Glu
385 390 395 400

Pro Ala Ser Gly Gly Gly Thr Cys His Arg Cys Arg Asp Glu Val
405 410 415

His Phe Asp Pro Arg Gln Arg Gly Leu Thr Glu Ser Arg Val Leu Val
420 425 430

Gly Gly Leu Arg Ala His Val Pro Tyr Ile Leu Glu Val Gln Ala Val
435 440 445

Asn Gly Val Ser Glu Leu Ser Pro Asp Pro Pro Gln Ala Ala Ala Ile
450 455 460

Asn Val Ser Thr Ser His Glu Val Pro Ser Ala Val Pro Val Val His
465 470 475 480

Gln Val Ser Arg Ala Ser Asn Ser Ile Thr Val Ser Trp Pro Gln Pro
485 490 495

Asp Gln Thr Asn Gly Asn Ile Leu Asp Tyr Gln Leu Arg Tyr Tyr Asp
500 505 510

Gln Ala Glu Asp Glu Ser His Ser Phe Thr Leu Thr Ser Glu Thr Asn
515 520 525

Thr Ala Thr Val Thr Gln Leu Ser Pro Gly His Ile Tyr Gly Phe Gln
530 535 540

Val Arg Ala Arg Thr Ala Ala Gly His Gly Pro Tyr Gly Gly Lys Val
 545 550 555 560

Tyr Phe Gln Thr Leu Pro Gln Gly Glu Leu Ser Ser Gln Leu Pro Glu
 565 570 575

Arg Leu Ser Leu Val Ile Gly Ser Ile Leu Gly Ala Leu Ala Phe Leu
 580 585 590

Leu Leu Ala Ala Ile Thr Val Leu Ala Val Val Phe Gln Arg Lys Arg
 595 600 605

Arg Gly Thr Gly Tyr Thr Glu Gln Leu Gln Gln Tyr Ser Ser Pro Gly
 610 615 620

Leu Gly Val Lys Tyr Tyr Ile Asp Pro Ser Thr Tyr Glu Asp Pro Cys
 625 630 635 640

Gln Ala Ile Arg Glu Leu Ala Arg Glu Val Asp Pro Ala Tyr Ile Lys
 645 650 655

Ile Glu Glu Val Ile Gly Thr Gly Ser Phe Gly Glu Val Arg Gln Gly
 660 665 670

Arg Leu Gln Pro Arg Gly Arg Arg Glu Gln Thr Val Ala Ile Gln Ala
 675 680 685

Leu Trp Ala Gly Gly Ala Glu Ser Leu Gln Met Thr Phe Leu Gly Arg
 690 695 700

Ala Ala Val Leu Gly Gln Phe Gln His Pro Asn Ile Leu Arg Leu Glu
 705 710 715 720

Gly Val Val Thr Lys Ser Arg Pro Leu Met Val Leu Thr Glu Phe Met
 725 730 735

Glu Leu Gly Pro Leu Asp Ser Phe Leu Arg Gln Arg Glu Gly Gln Phe
 740 745 750

Ser Ser Leu Gln Leu Val Ala Met Gln Arg Gly Val Ala Ala Ala Met
 755 760 765

Gln Tyr Leu Ser Ser Phe Ala Phe Val His Arg Ser Leu Ser Ala His
 770 775 780

Ser Val Leu Val Asn Ser His Leu Val Cys Lys Val Ala Arg Leu Gly

785

790

795

800

His Ser Pro Gln Gly Pro Ser Cys Leu Leu Arg Trp Ala Ala Pro Glu		
805	810	815

Val Ile Ala His Gly Lys His Thr Thr Ser Ser Asp Val Trp Ser Phe		
820	825	830

Gly Ile Leu Met Trp Glu Val Met Ser Tyr Gly Glu Arg Pro Tyr Trp		
835	840	845

Asp Met Ser Glu Gln Glu Val Leu Asn Ala Ile Glu Gln Glu Phe Arg		
850	855	860

Leu Pro Pro Pro Pro Gly Cys Pro Pro Gly Leu His Leu Leu Met Leu			
865	870	875	880

Asp Thr Trp Gln Lys Asp Arg Ala Arg Arg Pro His Phe Asp Gln Leu		
885	890	895

Val Ala Ala Phe Asp Lys Met Ile Arg Lys Pro Asp Thr Leu Gln Ala		
900	905	910

Gly Gly Asp Pro Gly Glu Arg Pro Ser Gln Ala Leu Leu Thr Pro Val		
915	920	925

Ala Leu Asp Phe Pro Cys Leu Asp Ser Pro Gln Ala Trp Leu Ser Ala		
930	935	940

Ile Gly Leu Glu Cys Tyr Gln Asp Asn Phe Ser Lys Phe Gly Leu Cys			
945	950	955	960

Thr Phe Ser Asp Val Ala Gln Leu Ser Leu Glu Asp Leu Pro Ala Leu		
965	970	975

Gly Ile Thr Leu Ala Gly His Gln Lys Lys Leu Leu His His Ile Gln		
980	985	990

Leu Leu Gln Gln His Leu Arg Gln Gln Gly Ser Val Glu Val		
995	1000	1005

<210> 2426

<211> 508

<212> PRT

<213> Homo sapiens

<400> 2426

Met Asp His Leu Gly Ala Ser Leu Trp Pro Gln Val Gly Ser Leu Cys			
1	5	10	15
Leu Leu Leu Ala Gly Ala Ala Trp Ala Pro Pro Pro Asn Leu Pro Asp			
20 25 30			
Pro Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu			
35 40 45			
Glu Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp			
50 55 60			
Glu Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser			
65 70 75 80			
Tyr Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala			
85 90 95			
Pro Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala			
100 105 110			
Asp Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser			
115 120 125			
Gly Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu			
130 135 140			
Leu Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly			
145 150 155 160			
His Val Val Leu Arg Trp Leu Pro Pro Glu Thr Pro Met Thr Ser			
165 170 175			
His Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser			
180 185 190			
Val Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser			
195 200 205			
Asn Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met			
210 215 220			
Ala Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val			
225 230 235 240			

Ser Leu Leu Thr Pro Ser Asp Leu Asp Pro Leu Ile Leu Thr Leu Ser
 245 250 255

Leu Ile Leu Val Val Ile Leu Val Leu Leu Thr Val Leu Ala Leu Leu
 260 265 270

Ser His Arg Arg Ala Leu Lys Gln Lys Ile Trp Pro Gly Ile Pro Ser
 275 280 285

Pro Glu Ser Glu Phe Glu Gly Leu Phe Thr Thr His Lys Gly Asn Phe
 290 295 300

Gln Leu Trp Leu Tyr Gln Asn Asp Gly Cys Leu Trp Trp Ser Pro Cys
 305 310 315 320

Thr Pro Phe Thr Glu Asp Pro Pro Ala Ser Leu Glu Val Leu Ser Glu
 325 330 335

Arg Cys Trp Gly Thr Met Gln Ala Val Glu Pro Gly Thr Asp Asp Glu
 340 345 350

Gly Pro Leu Leu Glu Pro Val Gly Ser Glu His Ala Gln Asp Thr Tyr
 355 360 365

Leu Val Leu Asp Lys Trp Leu Leu Pro Arg Asn Pro Pro Ser Glu Asp
 370 375 380

Leu Pro Gly Pro Gly Gly Ser Val Asp Ile Val Ala Met Asp Glu Gly
 385 390 395 400

Ser Glu Ala Ser Ser Cys Ser Ser Ala Leu Ala Ser Lys Pro Ser Pro
 405 410 415

Glu Gly Ala Ser Ala Ala Ser Phe Glu Tyr Thr Ile Leu Asp Pro Ser
 420 425 430

Ser Gln Leu Leu Arg Pro Trp Thr Leu Cys Pro Glu Leu Pro Pro Thr
 435 440 445

Pro Pro His Leu Lys Tyr Leu Tyr Leu Val Val Ser Asp Ser Gly Ile
 450 455 460

Ser Thr Asp Tyr Ser Ser Gly Asp Ser Gln Gly Ala Gln Gly Gly Leu
 465 470 475 480

Ser Asp Gly Pro Tyr Ser Asn Pro Tyr Glu Asn Ser Leu Ile Pro Ala

485

490

495

Ala Glu Pro Leu Pro Pro Ser Tyr Val Ala Cys Ser
 500 505

<210> 2427

<211> 441

<212> PRT

<213> Homo sapiens

<400> 2427

Met Ser Pro Ile Ser Gly Ala Ser Pro Ser Trp Arg Ala Ala Pro Lys
 1 5 10 15

Ala Ser Asp Leu Leu Gly Ala Arg Gly Pro Gly Gly Thr Phe Gln Gly
 20 25 30

Arg Asp Leu Arg Gly Gly Ala His Ala Ser Ser Ser Ser Leu Asn Pro
 35 40 45

Met Pro Pro Ser Gln Leu Gln Leu Ser Thr Val Asp Ala His Ala Arg
 50 55 60

Thr Pro Val Leu Gln Val His Pro Leu Glu Ser Pro Ala Met Ile Ser
 65 70 75 80

Leu Thr Pro Pro Thr Thr Ala Thr Gly Val Phe Ser Leu Lys Ala Arg
 85 90 95

Pro Gly Leu Pro Pro Gly Ile Asn Val Ala Ser Leu Glu Trp Val Ser
 100 105 110

Arg Glu Pro Ala Leu Leu Cys Thr Phe Pro Asn Pro Ser Ala Pro Arg
 115 120 125

Lys Asp Ser Thr Leu Ser Ala Val Pro Gln Ser Ser Tyr Pro Leu Leu
 130 135 140

Ala Asn Gly Val Cys Lys Trp Pro Gly Cys Glu Lys Val Phe Glu Glu
 145 150 155 160

Pro Glu Asp Phe Leu Lys His Cys Gln Ala Asp His Leu Leu Asp Glu
 165 170 175

Lys Gly Arg Ala Gln Cys Leu Leu Gln Arg Glu Met Val Gln Ser Leu
 180 185 190

Glu Gln Gln Leu Val Leu Glu Lys Glu Lys Leu Ser Ala Met Gln Ala
 195 200 205

His Leu Ala Gly Lys Met Ala Leu Thr Lys Ala Ser Ser Val Ala Ser
 210 215 220

Ser Asp Lys Gly Ser Cys Cys Ile Val Ala Ala Gly Ser Gln Gly Pro
 225 230 235 240

Val Val Pro Ala Trp Ser Gly Pro Arg Glu Ala Pro Asp Ser Leu Phe
 245 250 255

Ala Val Arg Arg His Leu Trp Gly Ser His Gly Asn Ser Thr Phe Pro
 260 265 270

Glu Phe Leu His Asn Met Asp Tyr Phe Lys Phe His Asn Met Arg Pro
 275 280 285

Pro Phe Thr Tyr Ala Thr Leu Ile Arg Trp Ala Ile Leu Glu Ala Pro
 290 295 300

Glu Lys Gln Arg Thr Leu Asn Glu Ile Tyr His Trp Phe Thr Arg Met
 305 310 315 320

Phe Ala Phe Phe Arg Asn His Pro Ala Thr Trp Lys Val Ser Ser Ser
 325 330 335

Glu Val Ala Val Thr Gly Met Ala Ser Ser Ala Ile Ala Ala Gln Ser
 340 345 350

Gly Gln Ala Trp Val Trp Ala His Arg His Ile Gly Glu Glu Arg Asp
 355 360 365

Val Gly Cys Trp Trp Trp Leu Leu Ala Ser Glu Val Asp Ala His Leu
 370 375 380

Leu Pro Val Pro Gly Leu Pro Gln Asn Ala Ile Arg His Asn Leu Ser
 385 390 395 400

Leu His Lys Cys Phe Val Arg Val Glu Ser Glu Lys Gly Ala Val Trp
 405 410 415

Thr Val Asp Glu Leu Glu Phe Arg Lys Lys Arg Ser Gln Arg Pro Ser
 420 425 430

Arg Cys Ser Asn Pro Thr Pro Gly Pro
435 440

<210> 2428

<211> 413

<212> PRT

<213> Homo sapiens

<400> 2428

Met Glu Phe Pro Gly Leu Gly Ser Leu Gly Thr Ser Glu Pro Leu Pro
1 5 10 15

Gln Phe Val Asp Pro Ala Leu Val Ser Ser Thr Pro Glu Ser Gly Val
20 25 30

Phe Phe Pro Ser Gly Pro Glu Gly Leu Asp Ala Ala Ala Ser Ser Thr
35 40 45

Ala Pro Ser Thr Ala Thr Ala Ala Ala Ala Leu Ala Tyr Tyr Arg
50 55 60

Asp Ala Glu Ala Tyr Arg His Ser Pro Val Phe Gln Val Tyr Pro Leu
65 70 75 80

Leu Asn Cys Met Glu Gly Ile Pro Gly Gly Ser Pro Tyr Ala Gly Trp
85 90 95

Ala Tyr Gly Lys Thr Gly Leu Tyr Pro Ala Ser Thr Val Cys Pro Thr
100 105 110

Arg Glu Asp Ser Pro Pro Gln Ala Val Glu Asp Leu Asp Gly Lys Gly
115 120 125

Ser Thr Ser Phe Leu Glu Thr Leu Lys Thr Glu Arg Leu Ser Pro Asp
130 135 140

Leu Leu Thr Leu Gly Pro Ala Leu Pro Ser Ser Leu Pro Val Pro Asn
145 150 155 160

Ser Ala Tyr Gly Gly Pro Asp Phe Ser Ser Thr Phe Phe Ser Pro Thr
165 170 175

Gly Ser Pro Leu Asn Ser Ala Ala Tyr Ser Ser Pro Lys Leu Arg Gly
180 185 190

Thr Leu Pro Leu Pro Pro Cys Glu Ala Arg Glu Cys Val Asn Cys Gly
195 200 205

Ala Thr Ala Thr Pro Leu Trp Arg Arg Asp Arg Thr Gly His Tyr Leu
210 215 220

Cys Asn Ala Cys Gly Leu Tyr His Lys Met Asn Gly Gln Asn Arg Pro
225 230 235 240

Leu Ile Arg Pro Lys Lys Arg Leu Ile Val Ser Lys Arg Ala Gly Thr
245 250 255

Gln Cys Thr Asn Cys Gln Thr Thr Thr Thr Leu Trp Arg Arg Asn
260 265 270

Ala Ser Gly Asp Pro Val Cys Asn Ala Cys Gly Leu Tyr Tyr Lys Leu
275 280 285

His Gln Val Asn Arg Pro Leu Thr Met Arg Lys Asp Gly Ile Gln Thr
290 295 300

Arg Asn Arg Lys Ala Ser Gly Lys Gly Lys Lys Lys Arg Gly Ser Ser
305 310 315 320

Leu Gly Gly Thr Gly Ala Ala Glu Gly Pro Ala Gly Gly Phe Met Val
325 330 335

Val Ala Gly Gly Ser Gly Ser Gly Asn Cys Gly Glu Val Ala Ser Gly
340 345 350

Leu Thr Leu Gly Pro Pro Gly Thr Ala His Leu Tyr Gln Gly Leu Gly
355 360 365

Pro Val Val Leu Ser Gly Pro Val Ser His Leu Met Pro Phe Pro Gly
370 375 380

Pro Leu Leu Gly Ser Pro Thr Gly Ser Phe Pro Thr Gly Pro Met Pro
385 390 395 400

Pro Thr Thr Ser Thr Thr Val Val Ala Pro Leu Ser Ser
405 410

<210> 2429

<211> 1039

<212> PRT

<213> Homo sapiens

<400> 2429

Met Ala Arg Ala Leu Cys Pro Leu Gln Ala Leu Trp Leu Leu Glu Trp
 1 5 10 15

Val Leu Leu Leu Leu Gly Pro Cys Ala Ala Pro Pro Ala Trp Ala Leu
 20 25 30

Asn Leu Asp Pro Val Gln Leu Thr Phe Tyr Ala Gly Pro Asn Gly Ser
 35 40 45

Gln Phe Gly Phe Ser Leu Asp Phe His Lys Asp Ser His Gly Arg Val
 50 55 60

Ala Ile Val Val Gly Ala Pro Arg Thr Leu Gly Pro Ser Gln Glu Glu
 65 70 75 80

Thr Gly Gly Val Phe Leu Cys Pro Trp Arg Ala Glu Gly Gly Gln Cys
 85 90 95

Pro Ser Leu Leu Phe Asp Leu Arg Asp Glu Thr Arg Asn Val Gly Ser
 100 105 110

Gln Thr Leu Gln Thr Phe Lys Ala Arg Gln Gly Leu Gly Ala Ser Val
 115 120 125

Val Ser Trp Ser Asp Val Ile Val Ala Cys Ala Pro Trp Gln His Trp
 130 135 140

Asn Val Leu Glu Lys Thr Glu Glu Ala Glu Lys Thr Pro Val Gly Ser
 145 150 155 160

Cys Phe Leu Ala Gln Pro Glu Ser Gly Arg Arg Ala Glu Tyr Ser Pro
 165 170 175

Cys Arg Gly Asn Thr Leu Ser Arg Ile Tyr Val Glu Asn Asp Phe Ser
 180 185 190

Trp Asp Lys Arg Tyr Cys Glu Ala Gly Phe Ser Ser Val Val Thr Gln
 195 200 205

Ala Gly Glu Leu Val Leu Gly Ala Pro Gly Gly Tyr Tyr Phe Leu Gly
 210 215 220

Leu Leu Ala Gln Ala Pro Val Ala Asp Ile Phe Ser Ser Tyr Arg Pro
 225 230 235 240

Gly Ile Leu Leu Trp His Val Ser Ser Gln Ser Leu Ser Phe Asp Ser

245

250

255

Ser Asn Pro Glu Tyr Phe Asp Gly Tyr Trp Gly Tyr Ser Val Ala Val
 260 265 270

Gly Glu Phe Asp Gly Asp Leu Asn Thr Thr Glu Tyr Val Val Gly Ala
 275 280 285

Pro Thr Trp Ser Trp Thr Leu Gly Ala Val Glu Ile Leu Asp Ser Tyr
 290 295 300

Tyr Gln Arg Leu His Arg Leu Arg Ala Glu Gln Met Ala Ser Tyr Phe
 305 310 315 320

Gly His Ser Val Ala Val Thr Asp Val Asn Gly Asp Gly Arg His Asp
 325 330 335

Leu Leu Val Gly Ala Pro Leu Tyr Met Glu Ser Arg Ala Asp Arg Lys
 340 345 350

Leu Ala Glu Val Gly Arg Val Tyr Leu Phe Leu Gln Pro Arg Gly Pro
 355 360 365

His Ala Leu Gly Ala Pro Ser Leu Leu Leu Thr Gly Thr Gln Leu Tyr
 370 375 380

Gly Arg Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp Arg Asp
 385 390 395 400

Gly Tyr Asn Asp Ile Ala Val Ala Ala Pro Tyr Gly Gly Pro Ser Gly
 405 410 415

Arg Gly Gln Val Leu Val Phe Leu Gly Gln Ser Glu Gly Leu Arg Ser
 420 425 430

Arg Pro Ser Gln Val Leu Asp Ser Pro Phe Pro Thr Gly Ser Ala Phe
 435 440 445

Gly Phe Ser Leu Arg Gly Ala Val Asp Ile Asp Asp Asn Gly Tyr Pro
 450 455 460

Asp Leu Ile Val Gly Ala Tyr Gly Ala Asn Gln Val Ala Val Tyr Arg
 465 470 475 480

Ala Gln Pro Val Val Lys Ala Ser Val Gln Leu Leu Val Gln Asp Ser
 485 490 495

Leu Asn Pro Ala Val Lys Ser Cys Val Leu Pro Gln Thr Lys Thr Pro
500 505 510

Val Ser Cys Phe Asn Ile Gln Met Cys Val Gly Ala Thr Gly His Asn
515 520 525

Ile Pro Gln Lys Leu Ser Leu Asn Ala Glu Leu Gln Leu Asp Arg Gln
530 535 540

Lys Pro Arg Gln Gly Arg Arg Val Leu Leu Leu Gly Ser Gln Gln Ala
545 550 555 560

Gly Thr Thr Leu Asn Leu Asp Leu Gly Gly Lys His Ser Pro Ile Cys
565 570 575

His Thr Thr Met Ala Phe Leu Arg Asp Glu Ala Asp Phe Arg Asp Lys
580 585 590

Leu Ser Pro Ile Val Leu Ser Leu Asn Val Ser Leu Pro Pro Thr Glu
595 600 605

Ala Gly Met Ala Pro Ala Val Val Leu His Gly Asp Thr His Val Gln
610 615 620

Glu Gln Thr Arg Ile Val Leu Asp Ser Gly Glu Asp Asp Val Cys Val
625 630 635 640

Pro Gln Leu Gln Leu Thr Ala Ser Val Thr Gly Ser Pro Leu Leu Val
645 650 655

Gly Ala Asp Asn Val Leu Glu Leu Gln Met Asp Ala Ala Asn Glu Gly
660 665 670

Glu Gly Ala Tyr Glu Ala Glu Leu Ala Val His Leu Pro Gln Gly Ala
675 680 685

His Tyr Met Arg Ala Leu Ser Asn Val Glu Gly Phe Glu Arg Leu Ile
690 695 700

Cys Asn Gln Lys Lys Glu Asn Glu Thr Arg Val Val Leu Cys Glu Leu
705 710 715 720

Gly Asn Pro Met Lys Lys Asn Ala Gln Ile Gly Ile Ala Met Leu Val
725 730 735

Ser Val Gly Asn Leu Glu Glu Ala Gly Glu Ser Val Ser Phe Gln Leu
740 745 750

Gln Ile Arg Ser Lys Asn Ser Gln Asn Pro Asn Ser Lys Ile Val Leu
755 760 765

Leu Asp Val Pro Val Arg Ala Glu Ala Gln Val Glu Leu Arg Gly Asn
770 775 780

Ser Phe Pro Ala Ser Leu Val Val Ala Ala Glu Glu Gly Glu Arg Glu
785 790 795 800

Gln Asn Ser Leu Asp Ser Trp Gly Pro Lys Val Glu His Thr Tyr Glu
805 810 815

Leu His Asn Asn Gly Pro Gly Thr Val Asn Gly Leu His Leu Ser Ile
820 825 830

His Leu Pro Gly Gln Ser Gln Pro Ser Asp Leu Leu Tyr Ile Leu Asp
835 840 845

Ile Gln Pro Gln Gly Leu Gln Cys Phe Pro Gln Pro Pro Val Asn
850 855 860

Pro Leu Lys Val Asp Trp Gly Leu Pro Ile Pro Ser Pro Ser Pro Ile
865 870 875 880

His Pro Ala His His Lys Arg Asp Arg Arg Gln Ile Phe Leu Pro Glu
885 890 895

Pro Glu Gln Pro Ser Arg Leu Gln Asp Pro Val Leu Val Ser Cys Asp
900 905 910

Ser Ala Pro Cys Thr Val Val Gln Cys Asp Leu Gln Glu Met Ala Arg
915 920 925

Gly Gln Arg Ala Met Val Thr Val Leu Ala Phe Leu Trp Leu Pro Ser
930 935 940

Leu Tyr Gln Arg Pro Leu Asp Gln Phe Val Leu Gln Ser His Ala Trp
945 950 955 960

Phe Asn Val Ser Ser Leu Pro Tyr Ala Val Pro Pro Leu Ser Leu Pro
965 970 975

Arg Gly Ala Gln Val Trp Thr Gln Leu Leu Arg Ala Leu Glu Glu
 980 985 990

Arg Ala Ile Pro Ile Trp Trp Val Leu Val Gly Val Leu Gly Gly Leu
 995 1000 1005

Leu Leu Leu Thr Ile Leu Val Leu Ala Met Trp Lys Val Gly Phe
 1010 1015 1020

Phe Lys Arg Asn Arg Pro Pro Leu Glu Glu Asp Asp Glu Glu Gly
 1025 1030 1035

Glu

<210> 2430

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2430

Met Ala Thr Trp Ala Leu Leu Leu Ala Ala Met Leu Leu Gly Asn
 1 5 10 15

Pro Gly Leu Val Phe Ser Arg Leu Ser Pro Glu Tyr Tyr Asp Leu Ala
 20 25 30

Arg Ala His Leu Arg Asp Glu Glu Lys Ser Cys Pro Cys Leu Ala Gln
 35 40 45

Glu Gly Pro Gln Gly Asp Leu Leu Thr Lys Thr Gln Glu Leu Gly Arg
 50 55 60

Asp Tyr Arg Thr Cys Leu Thr Ile Val Gln Lys Leu Lys Lys Met Val
 65 70 75 80

Asp Lys Pro Thr Gln Arg Ser Val Ser Asn Ala Ala Thr Arg Val Cys
 85 90 95

Arg Thr Gly Arg Ser Arg Trp Arg Asp Val Cys Arg Asn Phe Met Arg
 100 105 110

Arg Tyr Gln Ser Arg Val Thr Gln Gly Leu Val Ala Gly Glu Thr Ala
 115 120 125

Gln Gln Ile Cys Glu Asp Leu Arg Leu Cys Ile Pro Ser Thr Gly Pro
 130 135 140

Leu
145

<210> 2431

<211> 262

<212> PRT

<213> Homo sapiens

<400> 2431

Met Arg Asn Ser Tyr Arg Phe Leu Ala Ser Ser Leu Ser Val Val Val
1 5 10 15

Ser Leu Leu Leu Ile Pro Glu Asp Val Cys Glu Lys Ile Ile Gly Gly
20 25 30

Asn Glu Val Thr Pro His Ser Arg Pro Tyr Met Val Leu Leu Ser Leu
35 40 45

Asp Arg Lys Thr Ile Cys Ala Gly Ala Leu Ile Ala Lys Asp Trp Val
50 55 60

Leu Thr Ala Ala His Cys Asn Leu Asn Lys Arg Ser Gln Val Ile Leu
65 70 75 80

Gly Ala His Ser Ile Thr Arg Glu Glu Pro Thr Lys Gln Ile Met Leu
85 90 95

Val Lys Lys Glu Phe Pro Tyr Pro Cys Tyr Asp Pro Ala Thr Arg Glu
100 105 110

Gly Asp Leu Lys Leu Leu Gln Leu Thr Glu Lys Ala Lys Ile Asn Lys
115 120 125

Tyr Val Thr Ile Leu His Leu Pro Lys Lys Gly Asp Asp Val Lys Pro
130 135 140

Gly Thr Met Cys Gln Val Ala Gly Trp Gly Arg Thr His Asn Ser Ala
145 150 155 160

Ser Trp Ser Asp Thr Leu Arg Glu Val Asn Ile Thr Ile Ile Asp Arg
165 170 175

Lys Val Cys Asn Asp Arg Asn His Tyr Asn Phe Asn Pro Val Ile Gly
180 185 190

Met Asn Met Val Cys Ala Gly Ser Leu Arg Gly Gly Arg Asp Ser Cys
195 200 205

Asn Gly Asp Ser Gly Ser Pro Leu Leu Cys Glu Gly Val Phe Arg Gly
210 215 220

Val Thr Ser Phe Gly Leu Glu Asn Lys Cys Gly Asp Pro Arg Gly Pro
225 230 235 240

Gly Val Tyr Ile Leu Leu Ser Lys Lys His Leu Asn Trp Ile Ile Met
245 250 255

Thr Ile Lys Gly Ala Val
260

<210> 2432

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2432

Met Val Leu Ser Pro Ala Asp Lys Thr Asn Val Lys Ala Ala Trp Gly
 1 5 10 15

Lys Val Gly Ala His Ala Gly Glu Tyr Gly Ala Glu Ala Leu Glu Arg
20 25 30

Met Phe Leu Ser Phe Pro Thr Thr Lys Thr Tyr Phe Pro His Phe Asp
35 40 45

Leu Ser His Gly Ser Ala Gln Val Lys Gly His Gly Lys Lys Val Ala
50 55 60

Asp Ala Leu Thr Asn Ala Val Ala His Val Asp Asp Asp Met Pro Asn Ala
55 70 75

Leu Ser Ala Leu Ser Asp Leu His Ala His Lys Leu Arg Val Asp Pro

Val Asn Phe Lys Leu Leu Ser His Cys Leu Leu Val Thr Leu Ala Ala
100 105

His Leu Pro Ala Glu Phe Thr Pro Ala Val His Ala Ser Leu Asp Lys

Phe Leu Ala Ser Val Ser Thr Val Leu Thr Ser Lys Tyr Arg
120 125

<210> 2433

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2433

Met Ser Leu Thr Lys Thr Glu Arg Thr Ile Ile Val Ser Met Trp Ala
1 5 10 15

Lys Ile Ser Thr Gln Ala Asp Thr Ile Gly Thr Glu Thr Leu Glu Arg
20 25 30

Leu Phe Leu Ser His Pro Gln Thr Lys Thr Tyr Phe Pro His Phe Asp
35 40 45

Leu His Pro Gly Ser Ala Gln Leu Arg Ala His Gly Ser Lys Val Val
50 55 60

Ala Ala Val Gly Asp Ala Val Lys Ser Ile Asp Asp Ile Gly Gly Ala
65 70 75 80

Leu Ser Lys Leu Ser Glu Leu His Ala Tyr Ile Leu Arg Val Asp Pro
85 90 95

Val Asn Phe Lys Leu Leu Ser His Cys Leu Leu Val Thr Leu Ala Ala
100 105 110

Arg Phe Pro Ala Asp Phe Thr Ala Glu Ala His Ala Ala Trp Asp Lys
115 120 125

Phe Leu Ser Val Val Ser Ser Val Leu Thr Glu Lys Tyr Arg
130 135 140

<210> 2434

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2434

Met Val His Leu Thr Pro Glu Glu Lys Thr Ala Val Asn Ala Leu Trp
1 5 10 15

Gly Lys Val Asn Val Asp Ala Val Gly Gly Glu Ala Leu Gly Arg Leu
20 25 30

Leu Val Val Tyr Pro Trp Thr Gln Arg Phe Phe Glu Ser Phe Gly Asp

35

40

45

Leu Ser Ser Pro Asp Ala Val Met Gly Asn Pro Lys Val Lys Ala His
 50 55 60

Gly Lys Lys Val Leu Gly Ala Phe Ser Asp Gly Leu Ala His Leu Asp
 65 70 75 80

Asn Leu Lys Gly Thr Phe Ser Gln Leu Ser Glu Leu His Cys Asp Lys
 85 90 95

Leu His Val Asp Pro Glu Asn Phe Arg Leu Leu Gly Asn Val Leu Val
 100 105 110

Cys Val Leu Ala Arg Asn Phe Gly Lys Glu Phe Thr Pro Gln Met Gln
 115 120 125

Ala Ala Tyr Gln Lys Val Val Ala Gly Val Ala Asn Ala Leu Ala His
 130 135 140

Lys Tyr His
 145

<210> 2435

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2435

Met Val His Phe Thr Ala Glu Glu Lys Ala Ala Val Thr Ser Leu Trp
 1 5 10 15

Ser Lys Met Asn Val Glu Glu Ala Gly Gly Glu Ala Leu Gly Arg Leu
 20 25 30

Leu Val Val Tyr Pro Trp Thr Gln Arg Phe Phe Asp Ser Phe Gly Asn
 35 40 45

Leu Ser Ser Pro Ser Ala Ile Leu Gly Asn Pro Lys Val Lys Ala His
 50 55 60

Gly Lys Lys Val Leu Thr Ser Phe Gly Asp Ala Ile Lys Asn Met Asp
 65 70 75 80

Asn Leu Lys Pro Ala Phe Ala Lys Leu Ser Glu Leu His Cys Asp Lys
 85 90 95

Leu His Val Asp Pro Glu Asn Phe Lys Leu Leu Gly Asn Val Met Val
 100 105 110

Ile Ile Leu Ala Thr His Phe Gly Lys Glu Phe Thr Pro Glu Val Gln
 115 120 125

Ala Ala Trp Gln Lys Leu Val Ser Ala Val Ala Ile Ala Leu Ala His
 130 135 140

Lys Tyr His
 145

<210> 2436
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 2436

Met Gly His Phe Thr Glu Glu Asp Lys Ala Thr Ile Thr Ser Leu Trp
 1 5 10 15

Gly Lys Val Asn Val Glu Asp Ala Gly Gly Glu Thr Leu Gly Arg Leu
 20 25 30

Leu Val Val Tyr Pro Trp Thr Gln Arg Phe Phe Asp Ser Phe Gly Asn
 35 40 45

Leu Ser Ser Ala Ser Ala Ile Met Gly Asn Pro Lys Val Lys Ala His
 50 55 60

Gly Lys Lys Val Leu Thr Ser Leu Gly Asp Ala Thr Lys His Leu Asp
 65 70 75 80

Asp Leu Lys Gly Thr Phe Ala Gln Leu Ser Glu Leu His Cys Asp Lys
 85 90 95

Leu His Val Asp Pro Glu Asn Phe Lys Leu Leu Gly Asn Val Leu Val
 100 105 110

Thr Val Leu Ala Ile His Phe Gly Lys Glu Phe Thr Pro Glu Val Gln
 115 120 125

Ala Ser Trp Gln Lys Met Val Thr Ala Val Ala Ser Ala Leu Ser Ser
 130 135 140

Arg Tyr His

145

<210> 2437
<211> 142
<212> PRT
<213> Homo sapiens

<400> 2437

Met Ala Leu Ser Ala Glu Asp Arg Ala Leu Val Arg Ala Leu Trp Lys
1 5 10 15

Lys Leu Gly Ser Asn Val Gly Val Tyr Thr Thr Glu Ala Leu Glu Arg
20 25 30

Thr Phe Leu Ala Phe Pro Ala Thr Lys Thr Tyr Phe Ser His Leu Asp
35 40 45

Leu Ser Pro Gly Ser Ser Gln Val Arg Ala His Gly Gln Lys Val Ala
50 55 60

Asp Ala Leu Ser Leu Ala Val Glu Arg Leu Asp Asp Leu Pro His Ala
65 70 75 80

Leu Ser Ala Leu Ser His Leu His Ala Cys Gln Leu Arg Val Asp Pro
85 90 95

Ala Ser Phe Gln Leu Leu Gly His Cys Leu Leu Val Thr Leu Ala Arg
100 105 110

His Tyr Pro Gly Asp Phe Ser Pro Ala Leu Gln Ala Ser Leu Asp Lys
115 120 125

Phe Leu Ser His Val Ile Ser Ala Leu Val Ser Glu Tyr Arg
130 135 140

<210> 2438
<211> 260
<212> PRT
<213> Homo sapiens

<400> 2438

Met Arg Pro Glu Asp Arg Met Phe His Ile Arg Ala Val Ile Leu Arg
1 5 10 15

Ala Leu Ser Leu Ala Phe Leu Leu Ser Leu Arg Gly Ala Gly Ala Ile
20 25 30